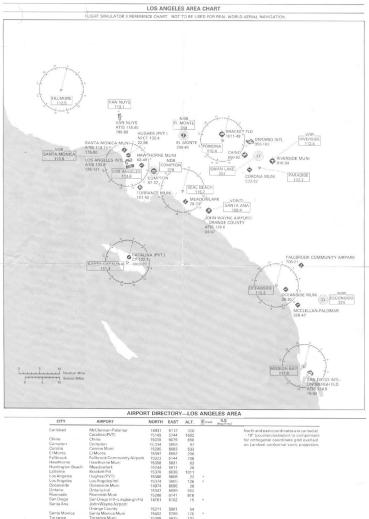
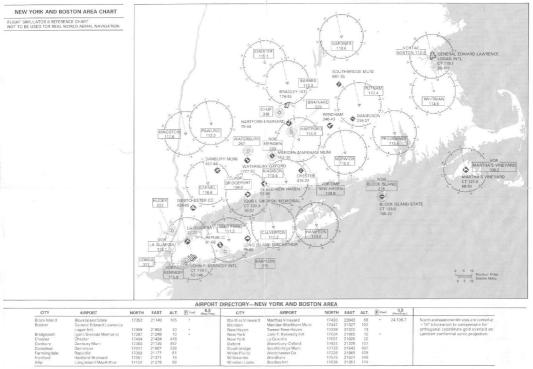
AIRPORT DIRECTORY—CHICAGO AREA						CHICAGO AREA CHART
CITY AIRPOR			ALT.	Fifuel	ILS (Mary (7 req.)	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION
orthogor	Illinois Willard 15400 15400 17156 17243 1	riaid on	706 875 754 619 667 619 607 695 630 775 757 695 630 775 789 626 786 88 848 748 760 672 735	: .	31/109.1	SCHAUBELING AIR PARK THE STATE OF THE STATE
						NEW LENDX-HOWELL TO THE TOTAL THE TO
						DOWNERT WORLD SEP SEP SE
	LEGEND					111.6 GREATER KANKAKEE CT 123.0 675-51
200	Civil-Public use airpo					7 \
*	Restricted/Private-No having emergency us	inpublic us se or land	se airpo mark va	rt, ilue		of the state of th
*	Rotating light in oper	ration, sun	nset to s	unrise		PONTAC PO
SANTA MONICA ATIS 119.15 176-50	Airport Name Advisory Frequency Elevation (feet) — Le			f feet)		
NAME FREQUENCY *	VOR					UOR GIBSON CITY MUNI 759-26 O
NAME FREQUENCY 9	VORTAC (Distance M	leasuring l	Equipm	ent Able	j	BLOOMINGTON NORMAL PAKTON 780-34
NAME FREQUENCY 9	VOR/DME					DANVILLE
NAME FREQUENCY (0)	Non Directional Beac	on				VORTAC AFRASCA FIELD VERMILION CO
VOR DME_ NAME FREQUENCY	If VOR falls directly on symbol will be shown shown at this top of the	The VOR 1	, only th facility t	e airport ype is		CHAMMAIN 735-35 695-54
AIRPORT NAME ABBREVIATI						UNIVERSITY OF ILLINOIS WILLARD FEALS ATTS 124 MS AGZ AGZ
CO FLD INTL	Field International					754-81 Neutrical Miles
MUNI (PVT)	Municipal Private Airport (prior p	ermission	before	landing)		0 5 10 Statute Viles



15308 5815 15498 5811

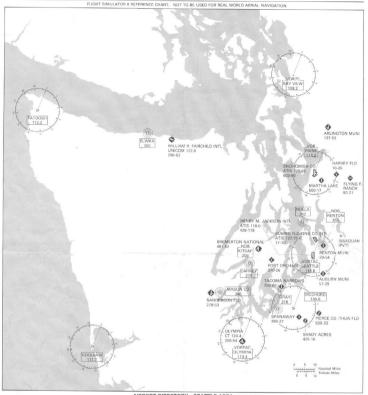
16R/111.3

799



CM-FS2 FLIGHT REFERENCE CARD 7 - more AILERONS r - less /) = full / [- cut ELEVATORS FLIGHT CONTROLS YOKE THROTTLE FLEVATOR RUDDER TRIM spece ber BRAKES CARR HEAT - ctrl (i) is for ical topoles carb heat on and off MAGNETOS-etcl M 1 off red M. 2 right ctrl M, 3 left erriM 4 both cred M. Surace MIXTURE - ctrl M. - full lean (lean cutoff) ctrl M. :- rich (proper flight mixture) FUEL TANK SELECT - ctrl F < left tank ctrl F. > right tack COM RADIO - ctrl C, >>> increase high digits (<<< for decrease) striC, striC, >>> increase low digits NAV RADIO - ctrl N,1 select NAV 1 for frequency changes ctri N.Z select NAV 2 ctrl N,>>> increase high digits on selected NAV radio (<<< for decrease) ctr1N, ctr1N, >>> increase low digits ADF __etri A, >>> __ctrl A 1.2. or 3 times to select digits 1.2. or 3 VORSIORS__rtdV_1_relect VORIORS 1 ctrlV,2 select VOR OBS 2 ctdV,>>> Increase bearing (<<< for docrease) TRANSPONDER -- press ctrif T one, two, three, or four times (rapidly) to select digits 1, 2, 3, or 4 strlT.>>> increase digit (<<< for decrease) note: etrl X is treated as ctrl T RADAR ear - 5.8 left-5.F 3-0 radar select - 4 radar zoom in -4, >>> reder zeom out - 4, <<< SELECTOR craft control keys after view ctrl L-lights E-go into edit mode ctrl B - altim adjust P-pause (toggles between pause and run) ctrl D - heading indicator adjust + - read mode from library (reset simulator) ctrl Z - save mode library to disk S - save current flight parameters to mode library ctrl X - read mode library from disk

SEATTLE AREA CHART



AIRPORT DIRECTORY—SEATTLE AREA							
CITY	AIRPORT	NORTH	EAST	ALT.	F (Faet)	ILS (Bary/Freq.)	
Alderwood Manor	Martha Lake	21502	6670	500			North and east coordinates are canted at
Arlington	Arlington Muni	21616	6737	137			- 21° (counterclockwise) to compensate
Auburn	Auburn Muni	21290	6586	57			for orthogonal coordinate grid overlaid
Bremerton	Bremerton National	21407	6470	481			on Lambert conformal conic projection
Everett	Snohomish Co	21525	6665	603		16/109.3	on camber comornar come projection
Issaguah	Issaguah	21362	6668	500		10.100.0	
Monroe	Flying F. Ranch	21481	6738	50			
Olympia	Olympia	21218	6343	206	+		
Puyallup	Pierce CoThun Fld	21206	6534	530			
Port Angeles	William R. Fairchild Intl.	21740	6375	288			
Port Orchard	Port Orchard	21373	6483	370			
Renton	Renton Muni	21351	6612	29			
Seattle	Boeing Fld/King Co Intl	21376	6596	17	+		
Seattle	Henry M. Jackson Intl.	21343	6584	429			
	(Seattle-Tacoma Intl)						
Shelton	Sanderson Fld.	21353	6316	278			
Snohomish Co. (Pai	ne Field) see Everett						
Snohomish	Harvey Fld	21505	6711	16			
Spanaway	Shady Acres	21201	6501	425			
Spanaway	Spanaway	21215	6491	385			
Tacoma	Tacoma Narrows	21300	6480	292			
	1000110110110	21300	0400	202			

Abilene (VOR)

13431N 12205E freq. 113.7

Abilene

13384N 12269E

RWY 17-35 7199 X 147 RWY 17-35 7196 X 147 RWY 4-22 3683 X 98



Acton (VOR)

13330N 13014E freq. 110.6

Ada (NDB)

14331N 13461E freq. 302

Ada

14318N 13446E alt. 1007

RWY 17-35 4998 X 98

RWY 12-30 3102 X 49



Amarillo (VOR)

14729N 11708E freq. 117.2 Amarillo Int'l

14687N 11686E RWY 4-22 RWY 13-31

13500 X 298 5405 X 49

Ardmore, Downtown Ardmore

14055N 13260E alt. 843 RWY 17-35

4998 X 72

6878 X 147



Antlers (NDB)

14042N 13808F freq. 391

Ardmore

14115N 13303E alt. 761

> RWY 8-26 RWY 12-30 RWY 4-22 7038 X 147



Antlers

14033N 13790F alt. 574 RWY 17-35

3299 X 59



Big Spring (VOR)

RWY 17-35 13460N 11604F freq. 114.3

Blue Ridge (VOR)

13659N 13521E freq. 114.9

Borger (VOR)

14943N 11828E freq. 108.6

Arbuckle (NDB) freq.

Ardmore (VOR)

14089N 13260E freq. 116.7

14064N 13271E

284

14876N 11824F

alt. 3054

RWY 17-35

RWY 3-21

Rowie

13836N 13013F alt. 1102 RWY 17-35

Breckenridge (NDB) 13510N 12575E

freq. 245

Breckenridge, Stephens Co.

13495N 12569E alt 1282 RWY 17-35 RWY 4-22

6297 X 98

3896 X 98

3617 X 59

4598 X 98 2374 X 49 2374 X 49

Brownwood (VOR) 13125N 12506F freq. 108.6

Burns Flat (VOR) 14606N 12571E freq. 110

Canadian, Hemphill Co. 14918N 12178F alt. 2385

RWY 4-22 RWY 0-18 Childress (VOR)

14271N 12142E

4099 X 72

2997 X 29

freq. 117.6 Childress

14289N 12145F

RWY 13-31

RWY 17-35

freq. 281

alt. 1952 PMV 4-22 RWY 8-26



RWY 13-31 Bridgeport (VOR) 13683N 13008F

freq. 116.5

Clarendon (NDB)

14530N 11962E







Dallas, Dallas Love



Coleman (NDB) 13121N 12337E freq. 385





Corsicana (NDB) 13079N 13487E

6 - DALLAS - FT WORTH

RWY 13-31 RWY 0-18 6146 X 147

freq. 396

13485N 13316E

7196 X 98

Cushing (NDB) 14809N 13462F freq. 242

Dallas, Meacham

alt. 708 RWY 16-34

RWY 9-27

RWY 16-34

13489N 13127E

3998 X 72

7498 X 147 4050 X 98

Dallas, Redbird

13414N 13302E alt. 659

RWY 13-31 RWY 17-35

5421 X 147 3798 X 147

8997 X 196

Durant, Eaker

13945N 13516E alt. 699

RWY 17-35 RWY 12-30 4998 X 98 2997 X 72



Dallas-Ft.Worth (VOR)

13497N 13264E freq. 117

RWY 13-31

Dallas-Ft. Worth Reg.





Eastland 13363N 12588E

alt. 1469 RWY 17-35

4054 X 59



El Reno (NDB) 14671N 13009E freq. 335

El Reno, Mustang

14649N 12998E alt. 1414 RWY 17-35

4198 X 59



Duncan (VOR)

14189N 12997E freq.

Durant (NDB)

13953N 13531E freq. 359

Farley (NDB)

13333N freq. 326

freq. 330 Gainesville

13840N 13220E alt. 833 RWY 4-22 4749 X 147

RWY 12-30 4654 X 147 RWY 8-26 4598 X 147 RWY 17-35 4496 X 98

Graham (NDB) 13664N 12717E freq. 335

Graham 13649N 12709E alt. 1122

RWY 3-21 4198 X 72 RWY 17-35 3325 X 49

Grindstone Mountain (NDB)

13843N 13022E freq. 356

Guthrie (VOR)

freq. 112.4

14014N 12097E

Henryetta (NDB)

Haskell

Guthrie

Haskell (NDB)

Hemphill CO. (NDB)

14790N 13219E

13737N 12297E

13731N 12296E

alt. 1624

RWY 0-18

freq. 407

alt. 1073

RWY 16-34

14938N 12177E

14577N 13714E

freq. 267

freq. 400

2997 X 49

Henryetta

14562N 13696E alt. 850

RWY 17-35 3499 X 49

Hobart (VOR) 14439N 12605E

freq. 111.8

Hobart 14479N 12610E

alt. 1565 RWY 3-21 5297 X 147

5297 X 147 5277 X 147 RWY 12-30 RWY 17-35

Holdenville (NDB) 14450N 13557E freq. 411

Holdenville

14437N 13542E alt. 863 RWY 17-35 3250 X 98 RWY 13-31

3197 X 98



Hudson (NDB)

Hudson Muni. 13432N 13426E alt. 446

RWY 17-35

13435N 13440F

freq. 248

Hyman (VOR)

13337N 11725E freq. 110.4 Kingfisher (VOR)

> 14810N 13023E freq.

Lamesa (NDB)

13642N 11468E freq. 338

114.7

Lamesa

13639N 11476E RWY 7-25

alt. 2998 RWY 16-34

4198 X 72 2141 X 49





1333BN 11320E freq. 114.8 Millsap (VOR)

13468N 12902F freq. 117.7 Mineral Wells (NDB)

13497N 12883E

freq. 266 Mineral Wells 13495N 12875E

RWY 17-35

4198 X 98

McAlester 14332N 13762E alt. 771 RWY 1-19 5598 X 98

RWY 8-26

McAlester (VOR)

RWY 17-35

14329N 13781E

freq. 112

7999 X 147

2866 X 72

alt. 964 RWY 13-31

14550N 13187E freq. 260

Norman (NDB)

Norman. Max Westheimer

RWY 17-35

14535N 13175E alt. 1181 RWY 13-31 2997 X 59

1797 X 78

Oklahoma City (VOR) 14645N 13090E

freq. 115

Oklahoma City, Will Rogers World

14500N 13139E alt. 1296

RWY 17-35 9800 X 147 RWY 17-35 9797 X 147

RWY 12-30 6527 X 147 RWY 17-35 2974 X 72

Okmulgee (VOR) 14699N freq.

Old Rip (NDB)

13355N freq. 410

Pampa (NDB)

14836N 11955E freq. 368

Pampa, Perry Lefors

14818N 11959E alt. 3244 RWY 17-35

RWY 5-23

13748N 13864E freq. 113.6

Paris, Cox

13787N 13850E alt. 548

RWY 17-35 RWY 3-21

Paris (VOR)

Plainview (VOR)

14216N 11587E freq. 112.9

RWY 13-31

5999 X 147 4624 X 147

5497 X 98

4496 X 72



Plainview, Hale Co.

5195 X 98 RWY 13-31 3998 X 98

Powell (NDB)

13094N 13480E freq.

Quitman (VOR)

13458N 13876E 114 freq.

Redbird (NDB)

13415N

13314E freq. 287

Savre (VOR)

14669N 12424E freq.

Scotland (NDB)

13951N

344 freq. Scurry (VOR)

13302N 13504E freq. 112.9

115.2

12769E

Stephenville (NDB)

Sulphur Springs (VOR)

Sweetwater (NDB)

Shawn (NDB)

Shawnee (NDB)

Shawnee

13999N 12784E

14580N 13382E freq. 227

14564N 13368E alt. 1079

RWY 17-35

13254N 12819E

13600N 13820E

freq. 109

freq. 223

4198 X 147

freq. 296

13451N 11984E freq. 275

Tahlequah (NDB)

14781N 14089E freq. 215

Tahlequah

14763N 14067E alt. 872

RWY 17-35 3197 X 59



Tulsa (VOR)

14917N 13821E freq. 114.4 Tulsa Int'l

> 14913N 13778E alt. 676

PWY 17-35 9997 X 196 RWY 8-25 7694 X 147 RWY 17-35 5497 X 147



Tuscola (VOR)

13322N 12211E freq. 111.6

weetwater

13448N 11987E alt. 2385 RWY 16-34 5841 X 72 5648 X 147 RWY 3-21



Witchita Falls (VOR)

14039N 12735F freq.

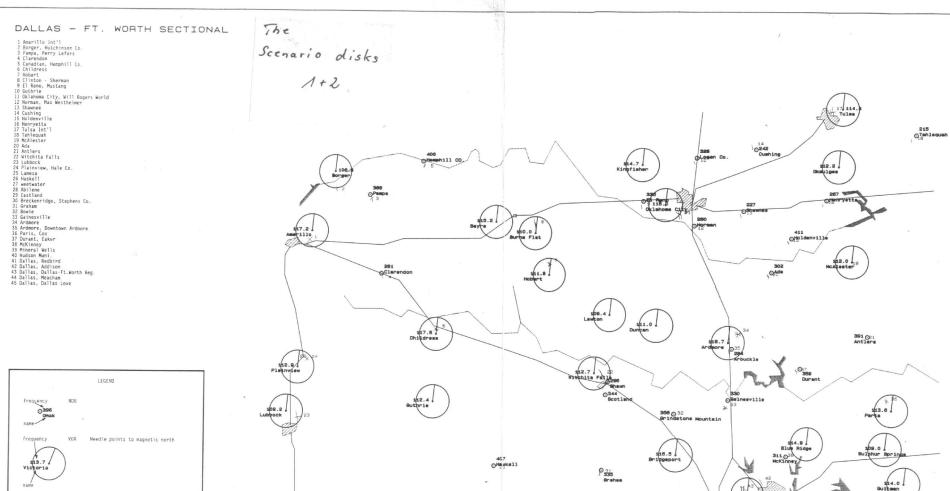
Witchita Falls

14024N 12764E alt. 1014

> RWY 15-33 13097 X 298 RWY 15-33 8796 X 147 RWY 17-35 6999 X 147







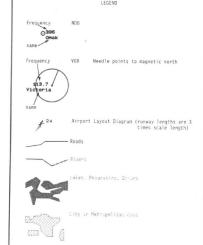
298-0 30 Mineral Well 217.9 Willesp

©223 Stephenville

> OPowell 396 Corsicans

OBreckenridge

01d Rip



338 0 25 Lamesa

Big Spring

sio.4

50 nautical miles

Acton (VOR)

13330N 13014E freq. 110.6

Alexandria (VOR)

12581N 14901E freq. 115.1

Alexandria, Esler Reg.

12624N 14989E alt. 112

RWY 8-26 5995 X 147

RWY 14-32 5598 X 147

Andrau (NDB)

12042N 13663F freq. 269

Baton Rouge (VOR)

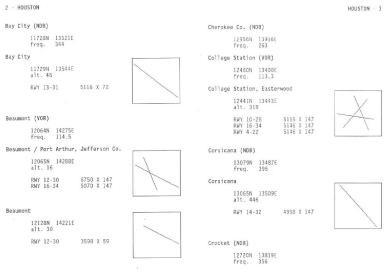
12202N 15323F

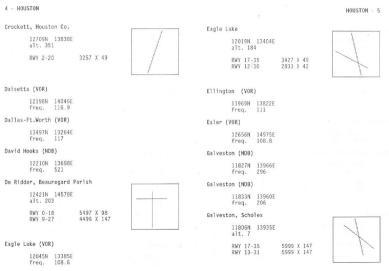
freq. 116.5

Baton Rouge, Ryan

12216N 15381E alt. 72

RWY 4-22 6897 X 147 RWY 13-31





Goodhue (NDB) Houston, Hobby 12130N 14212E 11989N 13799E freq. 368 alt. 46

7599 X 147 Hobby (VOR) RWY 4-22 RWY 13-31 7599 X 147 11993N 13781F 5999 X 147 RWY 17-35 117.6 freq. RWY 13-31 5149 X 98

Hodge (NDB) Houston, Hooks Mem. 13003N 14854E freq. 256



Hudson (NDB)

13435N freq.

13440E 248

12176N 13717E

RWY 17-35

alt. 151

RWY 17-35

6999 X 98

3998 X 39

HOUSTON - 7

Humble (VOR) 12128N 116.6 freq.

Huntsville (NDB) 12485N 13721E freq. 308

RWY 14-32 6035 X 98 RWY 13-31 1981 X 72 Houston, Andrau 12037N 13686E alt. 79

Houston Intercontinental

RWY 8-26

RWY 16-34

RWY 11-29

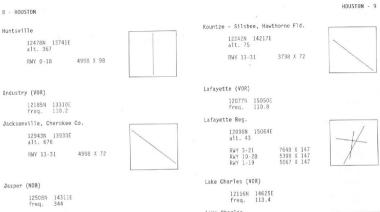
12137N 13786E alt. 98 RWY 14-32

6 - HOUSTON

11998 X 147

9400 X 147

4749 X 49



12112N 14594E

6497 X 147

4398 X 98

alt. 16

RWY 15-33

PWY 5-23



12473N 14324E

4149 X 68

alt. 223

RWY 17-35

HOUSTON - 11

12084N 13637F freq. 249

Lee Co. (NDB) 12301N 13166E

freq. 385 Leona (VOR)

12664N 13597E freq. 110.8 Lufkin (VOR)

12626N 14066E freq. 112.1

Lufkin, Angelina Co. 12649N 14075E

alt. 289 RWY 15-33

RWY 7-25

Mansfield (NDB) 12984N 14465E freq. 414

4513 X 98 4398 X 98

Nacogdoches (NDB) 12832N 14084E freq. 391

Mansfield, Desoto Parish

alt. 325

RWY 3-21

RWY 0-18

12071N 14478E

Nacogdoches, East Texas Reg. 12796N 14105E alt. 371

4198 X 147 RWY 6-24 RWY 15-33

3598 X 72

5067 X 147

5067 X 72







Natchez (VOR)

12696N 15364E

alt. 272

RWY 13-31

RWY 17-35

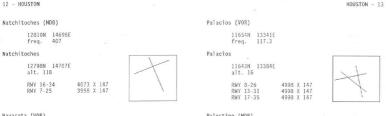


freq. 110

Natchez-Adams Co., Hardy-Anders Fld 12683N 15365E

5007 4 4998 X

		1
147		1
14.7	i	





12936N 13730E freq. 115.9 freq. 375 Palestine

New Iberia, Acadiana 12025N 15087E alt. 23 RWY 16-34 7999 X 196



12924N 13750E alt. 423

RWY 8-26 RWY 17-35

3998 X 72 3998 X 72

12257N 15026F

alt. 72

RWY 17-35

RWY 5-23

Opelousas, St.Landry Parish

4549 X 98

4047 X 98

Parish (NDB) 12392N

Pine (NDB)

14567F freq. 385

12470N 14307F freq. 332

14 - HOUSTON

Port Lavaca (NDB)

12544N 14626E

freq. 108.4

HOUSTON - 15

11628N 13191E freq. 515		11954N freq.	14250E 115.4	
Port Lavaca, Calhoun Co.	Schole	s (VOR)		
11631N 13217E alt. 33		11840N freq.	13871E 112.8	
RWY 14-32 3998 X 72	Scurry	(VOR)		
		13302N freq.	13504E 112.9	
Powell (NDB)	Temple	(VOR)		
12004N 12400F		12763N	13043F	

freq. 391

Sabine Pass (VOR)

12763N 13043E freq. 110.4 13094N 13480E freq. 344 Tomball (NDB) Quitman (VOR)

16 - HOUSTON 12189N 13696E 13458N 13876E freq. 408 freq.

White Lake (VOR) Victoria (VOR) Redbird (NDB)

11878N 14881E

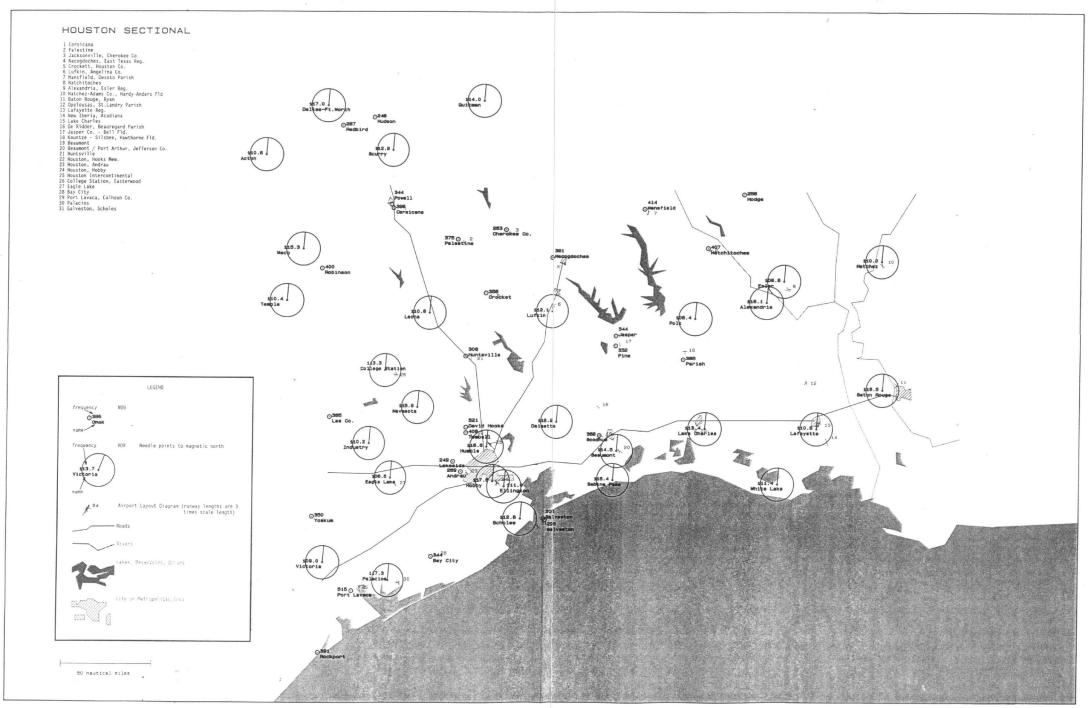
11746N 13091E 13415N 13314E freq. 111.4 freq. 109 freq. 287

Yoakum (NDB)

Wacc (VOR)

Robinson (NDB) 11926N 13065E

12955N 12874N 13187E freq. freq. freq. 400



13431N 12205E

freq. 113.7

Acton (VOR)

Abilene (VOR)

13330N 13014E freq. 110.6

Alice (VOR)

11287N 12652E freq. 114.5

Austin (VOR)

12376N 12896E freq. 114.5

Austin, Mueller

12376N 12909E alt. 633

RWY 13-31 RWY 17-35

7268 X 147 5005 X 147 3168 X 72 PWY 13-31



alt. 2703

RWY 16-3: 4027 X 49





Brooks Co. (NDB) 11060N 12589E freq. 353

Brownsville (VOR) 10475N 12825E freq. 116.3

Brownsville/South Padre Island Int'l 10476N 12808E alt. 23

RWY 13-31 7399 X 147 RWY 17-35 5999 X 147 RWY 13-31 2997 X 72

Brownwood (VOR) 13125N 12506E freq. 108.6

Brownwood 13069N 12508E

alt. 1387 RWY 17-35 5595 X 147 RWY 12-30 4598 X 98

11708N 12014E RWY 12-30 5297 X 72

SAN ANTONIO AND BROWNSVILLE - 3

12281N 12306F freq. 117.5 Coleman (NDB)

13121N 12337E

alt. 620

freq. 385 Coleman

Center Point (VOR)

13111N 12349E alt. 1696

RWY 15-33

College Station (VOR)

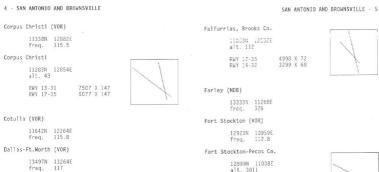
3798 X 72

12460N 13400F

freq. 113.3

Conor (NDB)

11313N 12827F freq. 382



Dimmit Co. (NDB) 11703N 11999E

freq. 343

Eagle Lake (VOR)

12045N 13385E freq. 108.6

freq.

Harlingen (VOR) 10650N 12677E

RWY 12-30 7498 X 98

108.8

6 - SAN ANTONIO AND BROWNSVILLE Harlingen, Rio Grande Valley Int'l

10625N 12732E alt. 36

RWY 17-35 8298 X 147 RWY 17-35 5949 X 147 RWY 8-26 5743 X 147 RWY 13-31 5254 X 147

Honda (NDB)

12039N 12294F freq. 329

Hondo

12037N 12303E alt 928 RWY 8-26 6097 X 147

RWY 13-31 6097 X 147 RWY 17-35 6097 X 147 RWY 4-22 5497 X 147 RWY 17-35 4696 X 147

Hyman (VOR)

13337N 11721E freq. 110.4

Industry (VOR)

12185N 13310E freq. 110.2

Laredo (VOR) 11234N 12100E

Junction (VOR)

Lampasas (VOR)

Lampasas

12503N 12117F

12782N 12774E

freq. 112.5

12741N 12752E

alt 1214

RWY 16-34

frea. 115

freq. 117.4 Laredo Int'l

> RWY 17-35 RWY 17-35 RWY 14-32 RWY 9-27

> > freq.

Laughlin (VOR) 12113N

11263N 12098E alt. 508

8199 X 147 7809 X 147

3808 X 59

5923 X 147 5431 X 147







SAN ANTONIO AND BROWNSVILLE - 7









12641N 12513E 108.2

McAllen (VOR) 10617N 12497E freq. 109.8

McAllen, Miller Int'l 10621N 12503E alt. 108

DMY 13-31 7107 X 147 RWY 0-18 2984 X 59

McGregor 12871N 13097E alt. 590

RWY 17-35 5497 X 147 RWY 4-22 3778 X 55

8 - SAN ANTONIO AND BROWNSVILLE

Lee Co. (NDB)

Llano (VOR)

Midland (VOR) 13338N freg.

frec.

Monahans, Hurd Mem.

Navy Corpus (VOR)

New Braunfels (NDB)

freq. 114

12136N 12740E freq. 212

Mitchell (NDB)

Mineral Wells (NDB)

13180N 11054F alt. 2614 RWY 12-30 RWY 1-19

13497N 12883E

10449N 12824F

freq. 375

freq. 266





SAN ANTONIO AND BROWNSVILLE - 9

















10 - SAN ANTONIO AND BROWNSVILLE New Braunfels

5369 X 147

5349 X 147

5359 X 98

12137N 12746E

13355N 12592E

11654N 13341F

11628N 13191E

12065N 12638E

12943N 11536F

13415N 13314E

287 freq.

freq. 515

freq. 112.3

freq. 341

freq. 117.3 Port Lavaca (NDB)

freq. 410

alt. 646

RWY 17-35

RWY 4-22 RWY 13-31

Old Rip (NDB)

Palacios (VOR)

Randolf (VOR)

Reagan (NDB)

Redbird (NDB)





















SAN ANTONIO AND BROWNSVILLE - 11



5598 X 147 4496 X 147 4496 X 147

RWY 14-32 RWY 8-26 RWY 17-35



6917 X 147

5936 X 147

4398 X 72

- 12372N 11903E
- freq. 111.2

freq. 391

11402N 13046F

Rockport, Arkansas Co.

alt. 26

- San Angelo (VOR)

Rocksprings (VOR)

12958N 11926E

alt. 1916

RWY 0-18

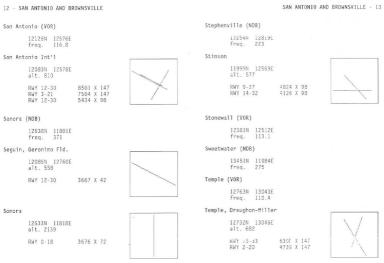
RWY 3-21

RWY 9-27

- freq. 115.1

San Angelo, Mathis

- 12970N 11923E



Tuscola (VOR)

freg. 111.4

13322N 12211E freq. 111.5 Uvalde (NDB)

14 - SAN ANTONIO AND BROWNSVILLE

11982N 12073E

281

freq. Uvalde, Garner

12000N 12084E

alt. 941 RWY 15-33

5247 X 98

Yoakum (NDB)

11926N freq. Yoakum Muni.

11930N 13064E alt. 367

Waco - Madison Cooper

alt. 515

RWY 1-19

RWY 14-32

RWY 5-23

12922N 13134E

RWY 13-31 3447 X 59

350

6596 X 147 5897 X 147

5497 X 147

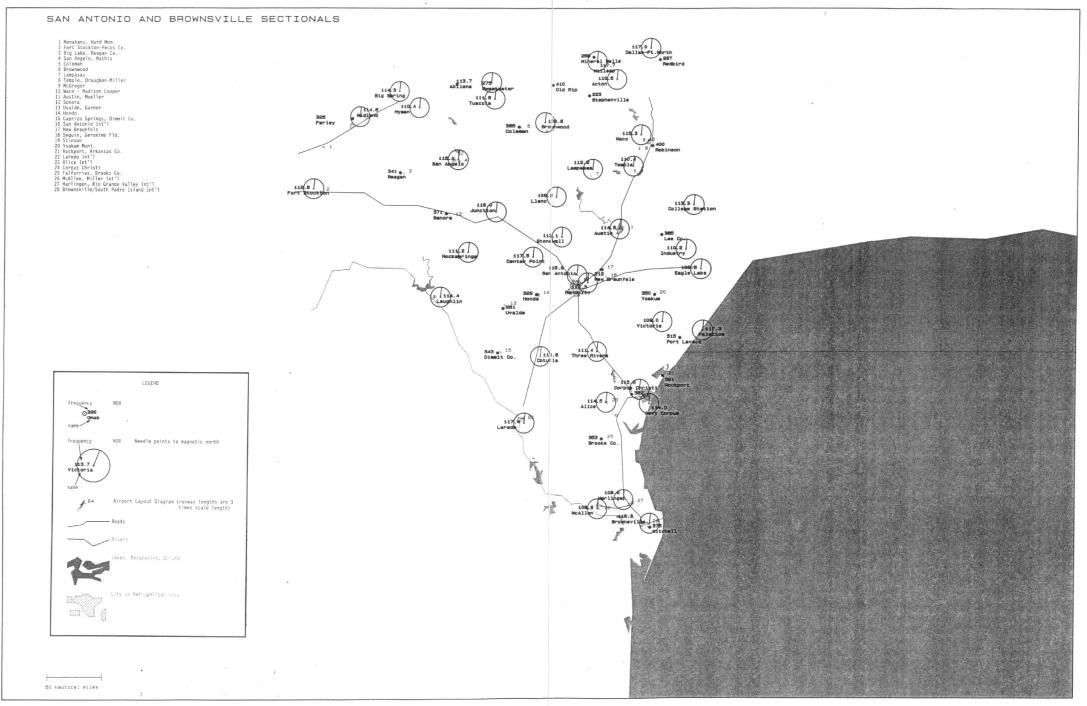
SAN ANTONIO AND BROWNSVILLE - 15

Victoria (VOR)

11746N 13091E freq. 109

Waco (VOR)

12955N 13122E freq.



ALBUQUERQUE AND EL PASO - 1

Alamagordo - White Sands

13805N 19022E alt. 4198

RWY 3-21 7002 X 147

Albuquerque (VOR) 14796N 9905F

freq. 113.2 Albuquerque Int'l

> 14782N 9979E alt. 5353

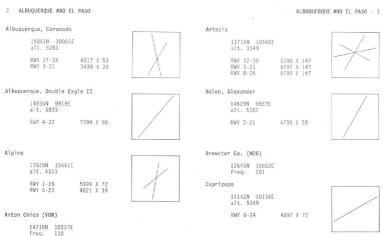
> RWY 8-26 RWY 17-35

RWY 3-21

Albuquerque, Alameda

14847N 9971E alt. 5097 RWY 10-28

6077 X 78 RWY 17-35



freq.

Artesia (NDB)

13703N 10575F freq. 414

Carlsbad (VOR)

13429N 10622E freq. 116.3



Dalhart (VOR)

14991N 11484E freq. 112

Carlsbad, Cavern City

13484N 10608F

alt. 3293

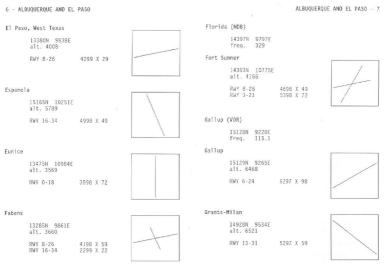
RWY 3-21 RWY 14-32 RWY 8-26 RWY 14-32

Carlsbad, Seven Rivers



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13810N 9577E alt. 4146 RWY 11-29 2929 X 42

13537N 10997E freq. 111

Hobbs, Lea Co.

Hobbs (VOR)

13573N 11006E alt. 3660

RWY 3-21 RWY 12-30 RWY 17-35. 4995 X 147 3509 X 147

RWY 8-26 Holloman (VOR)

13859N 9982E 108.2 freq.

Hudspeth (VOR)

13248N 10133E

14758N 9967E freq. 230

freq. Isleta (NDB)





Jal

13619N 9638E freq. 299 Las Cruces - Crawford

Las Vegas (NM) (VOR)

Las Vegas, NM



14949N 10536E

RWY 2 20 4998 X 72 RWY 14-32

alt. 6865

13334N 10094E

alt. 3116 RWY 1-19

RWY 9-27







ALBUQUERQUE AND EL PASO - 9











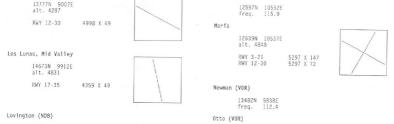


4738 X 49

3598 X 59







13582N 10970E freq. 396 Lovington, Lea Co Pec.

4598 X 72

Pecos (VOR) 13075N 10789E freq. 111.8

RWY 0-18

freq. 114

14750N 10217E

13078N 10789E freq. 111.8 Pecos City 13040N 10809E

RWY 12-30 Marathon (NDB) 12531N 10816E

freq. 388

alt. 3975

RWY 3-21

10 - ALBUQUERQUE AND EL PASO

2951 X 49

13040N 10809E alt. 2617 RWY 9-27 7199 X 147 RWY 13-31 6254 X 98





12348N 10346E alt. 2932 RWY 17-35 Salt Flat (VOR) 4495 X 72 13303N 10255E

freq.

12 - ALBUQUERQUE AND EL PASO

freq. 116.1

Roswell (VOR) Santa Fe (VOR)

14950N 13919N 10556E

10209E

freq.

ALBUQUERQUE AND EL PASO - 13

alt. 6344

RWY 8-26

Santa Fe Co.





14369N 9791E alt. 4851 RWY 15-33 Springerville (NDB)

St. Johns (VOR)

Socorro







14608N 8939E

274 freq.





Silver City (VOR)

6799 X 98

4398 X 49

Texico (VOR)

2387 X 49

RWY 8-26

14317N 11276E 112.2

2997 X 72

Socorro (VOR)

13862N 9218E

freq. 111.8

14493N 9845E freq.

116.8

Topan (NDB)

freq. 13921N freq.

305

10621F





RWY 13-31 4495 X 98 3499 X 98 RWY 4-22



Zuni (VOR)

RWY 3-21 7097 X 98 RWY 8-26 4874 X 147

14934N 9070F freq. 113.4

Zuni Pueblo, Black Rock

Valtr (NDB) 13446N 9814E freq. 242

14953N 9223E alt. 6455

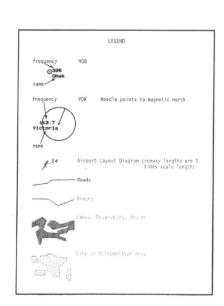
Van Horn (NDB)

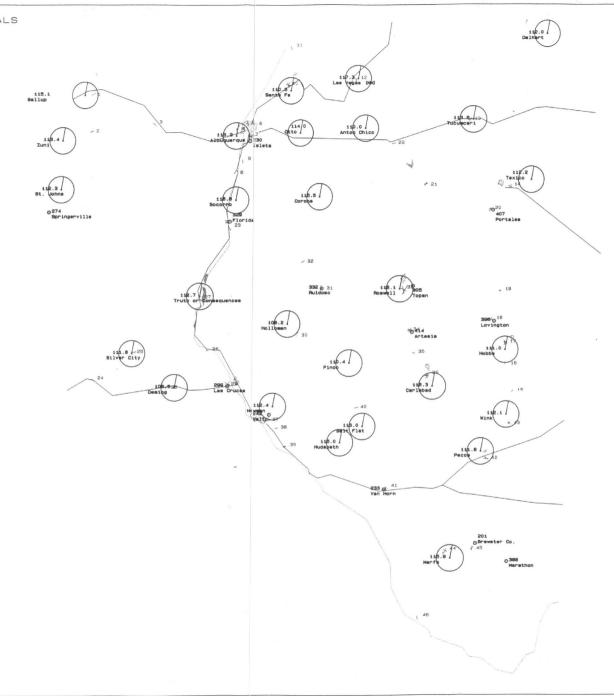
freq. 233

12985N 10304E

RWY 7-25 4798 X 49







Aio 14221N 7505E alt. 1460 DWV 12-30 3798 X 59 Bard (VOR) 14524N 6902E freq. 116.8



freq. 117.4

Blythe

14896N 6994E alt. 397

RWY 8-26 RWY 17-35









PHOENIX - 1

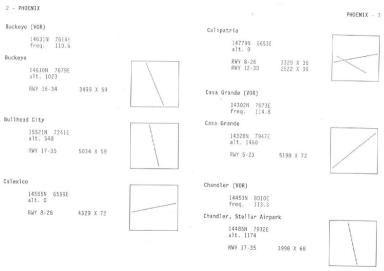


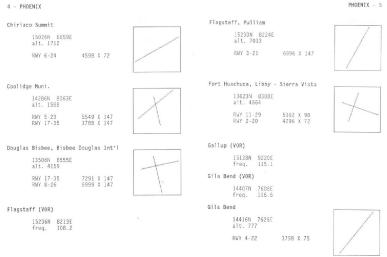
14720N 6639E alt. 0

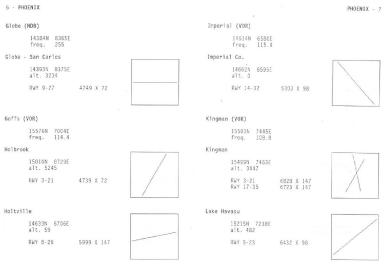


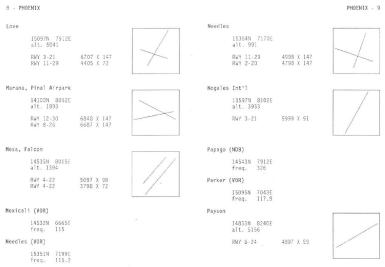


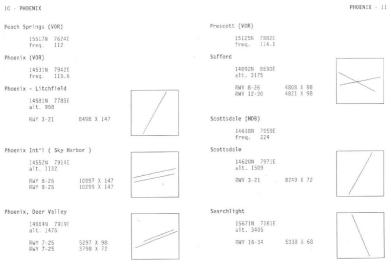


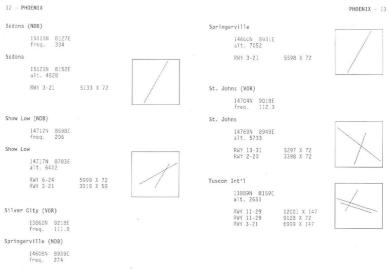


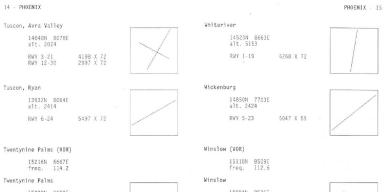














RWY 4-22

RWY 11-29

RWY 17-35

7494 X 147

7101 X 147

6248 X 147

RWY 8-26

RWY 17-35

5526 X 45

16 - PHOENIX

Yuma Int'l

14471N 6916E

RWY 3-21

RWY 8-26

Zuni (VOR)

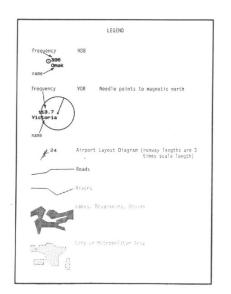
9236 X 147 6143 X 147

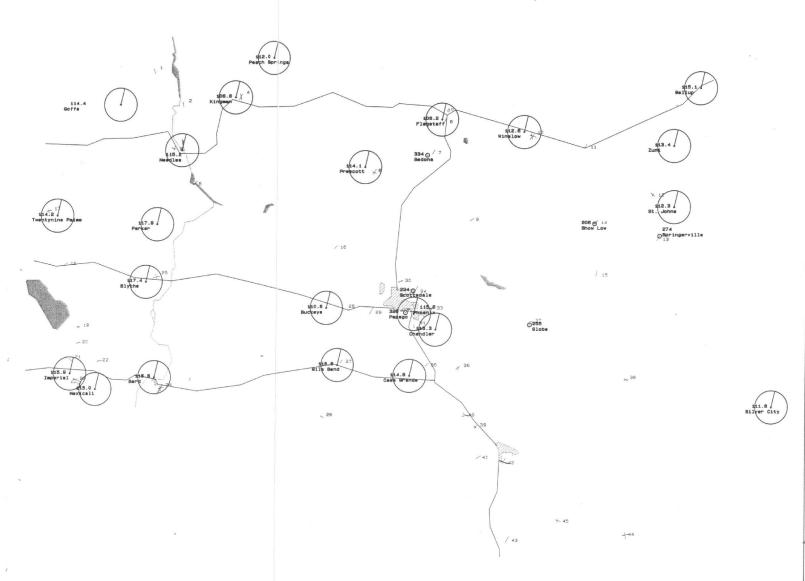
5707 x 147



14934N 9070E freq. 113.4







freg. 114.7 Beatty 16382N 6791F alt. 3168

Austin

RWY 16-34 5628 X 49

16343N 6798E

Beaver 16548N 8314E

alt. 5852

Boulder City (VOR) 15808N 7328E freq. 116.7

RWY 13-31 4496 X 72





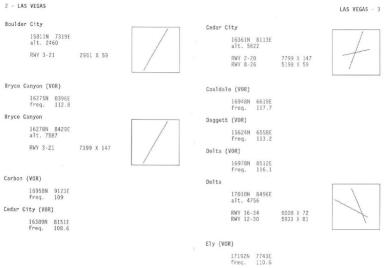
LAS VEGAS - 1

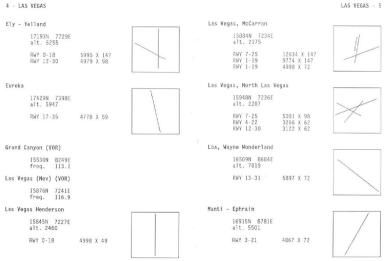


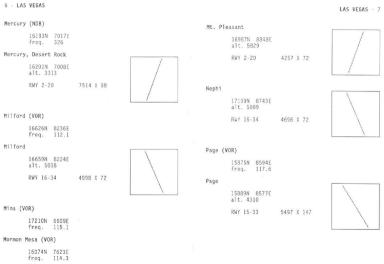


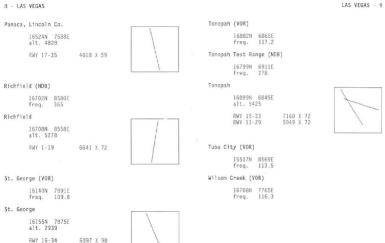


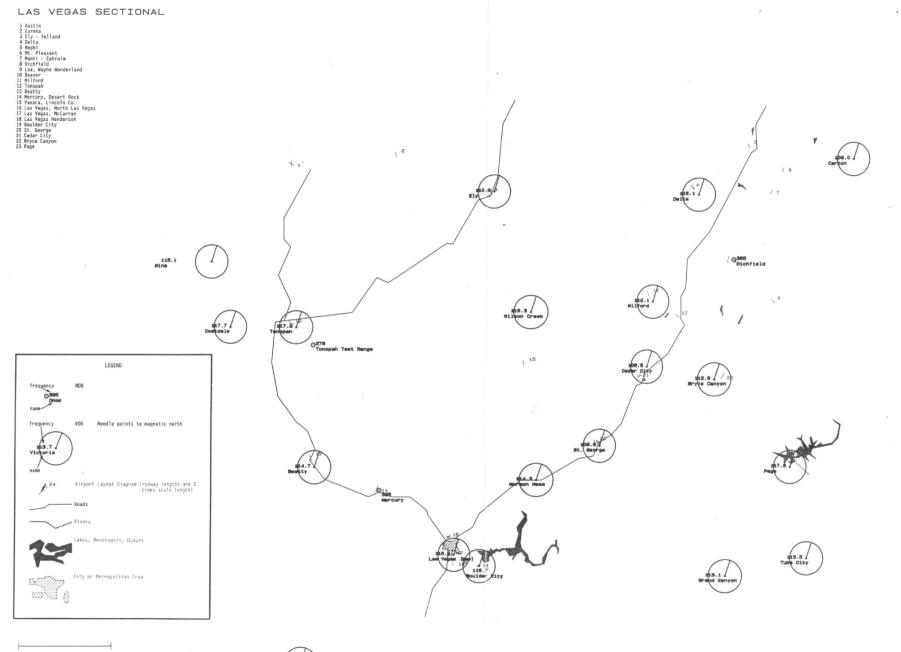












Apple Valley 15522N 6307E alt. 3060 RWY 0-18 5497 X 147

Avenal (VOR) 16234N 5480E

freq. 117.1 Bakersfield (VOR)

16079N 5758E freq. 115.4

Bakersfield, Meadows

16053N 5767E alt. 489

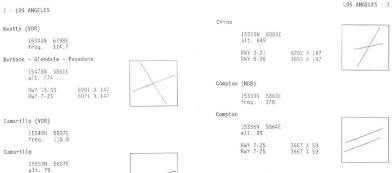
RWY 12-30 6707 X 147 RWY 12-30 3699 X 72

Banning

15214N 6349F

alt. 2221

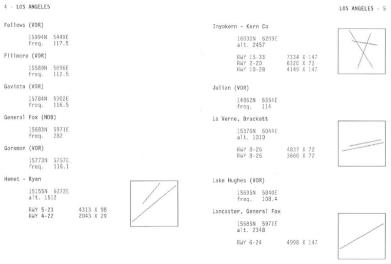
RWY 8-26 5198 X 147





Daggett, Barstow - Daggett Carlsbad, McClellan - Palomar

15601N 6474E 14926N 6112E alt. 1929 alt. 328 RWY 7-25 6399 X 147 RWY 6-24 4696 X 147 RWY 3-21 5149 X 98

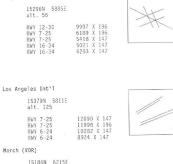


6 - LOS ANGELES

freq. 113.4

14774N 6089E freq. 117.8

Mission Bay (VOR)



RWY 12-30 RWY 7-25 RWY 4-22 Nan Nuys (VOR) 15497N 5816E freq. Oceanside (VOR) 14983N 6074E freq. Ontario Int'l 15343N 6106E alt. 951 RWY 8-26 RWY 8-25 RWY 3-21 0xnard 15563N 5567E

alt. 43 RWY 7-25

Mojave

15810N 6033E

9597 X 196

5198 X 49

10197 X 147

10000 X 147

4749 X 147

5949 X 98

alt. 2788



LOS ANGELES - 7

Pomona (VOR) RWY 12-30 7012 X 147 Porterville (VOR)

Palmdale (VOR) 15624N 6010E freq. 114.5

12001 X 196 11998 X 147

15628N 6003E alt. 2542 RWY 7-25 RWY 4-22

Priest (VOR) 16520N 5389E freq. 110 Rialto

15352N 6185F alt. 1437

Riverside (VOR)

RWY 6-24

15280N 6141E

freq. 112.4

15367N 5041F freq. 110.4

16249N 5836E

freq. 109.2

LOS ANGELES - 9

3598 X 72 Paradise (VOR) RWY 17-35

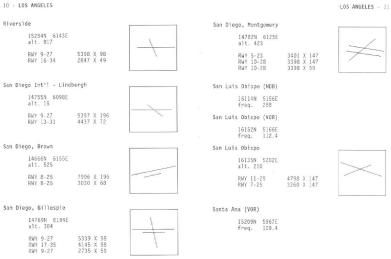
15276N 6112E freq. 112.2

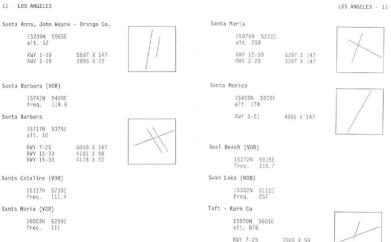
Paso Robles (VOR)

Palmdale AF

8 - LOS ANGELES

16308N 5266E freq. 114.3





RWY 2-20





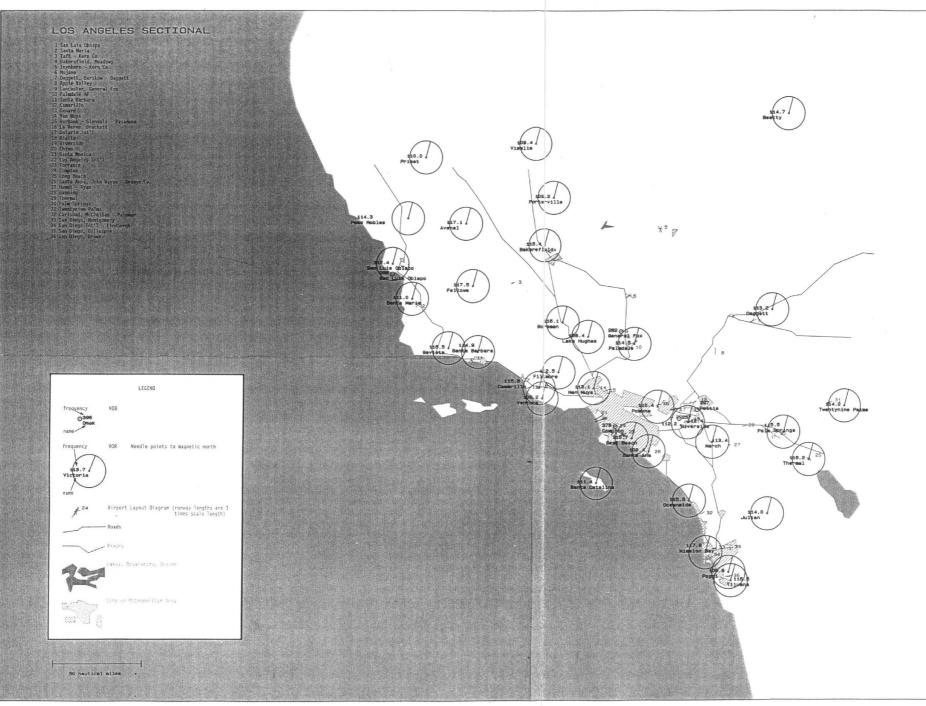




Twentynine Palms (VOR) 15194N 6745E freq. 114.2

14 - LOS ANGELES

16468N 5815E freq. 109.4



Big Sur (VOR)

16658N 5071F freq. 114

Bishop (VOR)

16757N 6331F freq. 109.6

Casa Diablo (NDB)

16854N 6298F freq. 260

Chandler (NDB)

16661N 5751E freq. 344

Chico (VOR)

18158N 5573E freq. 109.8

Chico

18158N 5567F

alt. 239

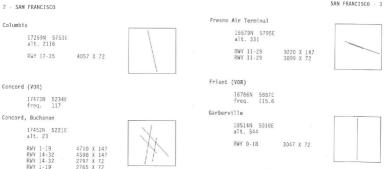
RWY 13-31 RWY 13-31

6723 X 147 3004 X 59



Columbia (NDB)

17267N 5759F frea. 404





16722N 5786E freq. 115.5

Hazen (VOR)

freq. 112.9 Fresno - Chandler Downtown

16671N 5752E

alt. 279

RWY 12-30

RWY 12-30

3473 X 72

3440 X 72

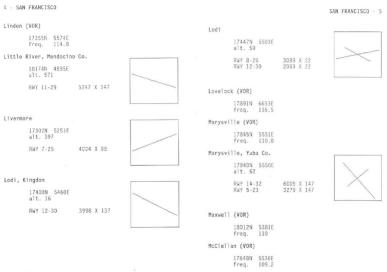
17720N 5979E

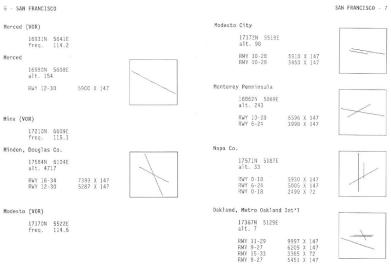
Lake Tahoe (VOR)

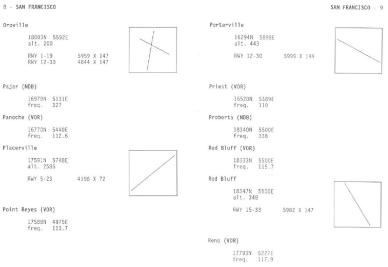
17712N 6434F

freq. 114.1

freq. 113.2







10 - SAN FRANCISCO

Reno Cannon Sacremento Exec. 17788N 6176E alt. 4412 17595N 5482E alt. 23 RWY 16-34 8997 X 147 RWY 7-25 5100 X 147 RWY 2-20 5500 X 147 RWY 16-34 5589 X 72 RWY 16-34 3483 X 147

SAN FRANCISCO - 11









freq. 115.2	RWY 3-21 1197 X RWY 14-32 1899 X	
Sacramento Metro 17681N 5477E	San Francisco Int'l	
alt. 23	17340N 5061E	

17681N 5477E	San Francisco Inc. I		
alt. 23	17340N 50611		
RWY 16-34 8596 X 147	alt. 10		
	RWY 9-27	5339 X 98	
	RWY 9-27	2735 X 59	1 1

RWY 17-35

4145 X 98

SAN FRANCISCO - 13



17184N 5165F

alt. 56

RWY 12-30

RWY 12-30

RWY 11-29

17758N 5064F

freq. 113

Santa Rosa (VOR)

RWY 13-31 3099 X 72 RWY 13-31 3096 X 72

8898 X 147 4418 X 147

2997 X 39

Santa Rosa, Sonoma Co.

17756N 5066E alt. 125 RWY 14-32

San Jose

5113 X 147 RWY 1-19

5001 X 147

Santa Rosa alt. 98 RWY 16-34

Sausalito (VOR)

17452N 5050E freq. 116.2 Scaggs Island (VOR)

17711N 5066F

17567N 5149E freq. 112.1

South Lake Tahoe, Lake Tahoe 17570N 6016E alt. 6265

RWY 0-18

Stockton (VOR) 17276N 5483E freq. 116

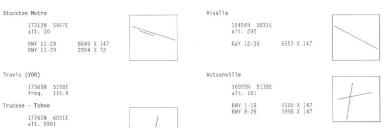
Sparks (NDB)

17875N 6213E freq.

254

8541 X 147

6887 X 196



RWY 10-28 6399 X 98 RWY 1-19 4647 X 72

14 - SAN FRANCISCO

Ukiah (VOR)

Visalia (VOR)

18037N 5004E

16468N 5815E freq. 109.4

freq. 112.3 Williams (VOR)

Willows-Glenn Co.

Woodside (VOR)

17888N 5402F freq. 114.4

18087N 5409E

17233N 5054E freq. 113.9

alt. 138

RWY 13-31

RWY 16-34

4555 X 98 4503 X 147

SAN FRANCISCO - 15

The SAN FRANCISCO SECTIONAL SAN PHANCISC I darbertile 2 had Birlf 3 this 3 this 5 the street of Scenario disks 3-5 1 1 Next comes (maybe) LEGEND frequency VOR Needle points to magnetic north 5327 Pajar Airport Layout Diagram (runway lengths are 3 times scale length) 112.6 / Panoche Rivers takes, Reservoirs, Occurs Priest N. Ed. 50 nautical miles

19941N 9104E alt. 5032

RWY 4-22 4495 X 59

Beaverhead (NDB)

19546N 9114F freq. 379

Big Timber

19588N 9909E alt. 4480

4647 ¥ 72 RWY 6-24

Billings (VOR)

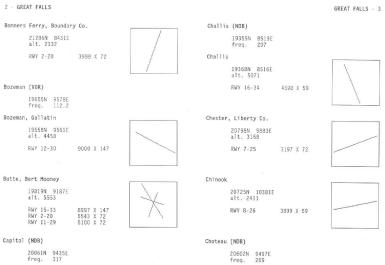
19492N 10339E

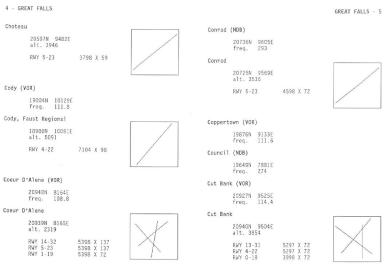
Blackfoot (NDB)

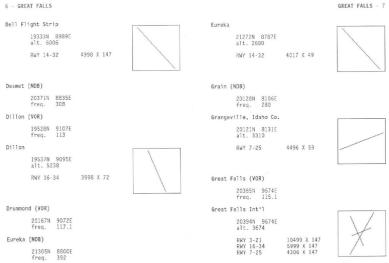
freq. 114.5

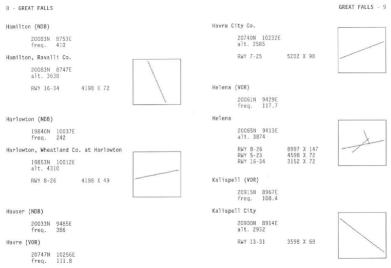
20925N 9521F freq. 250

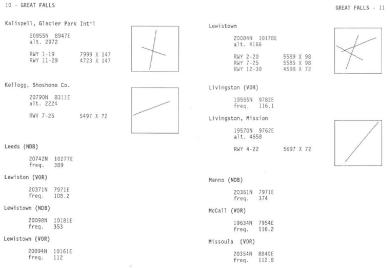
GREAT FALLS - 1

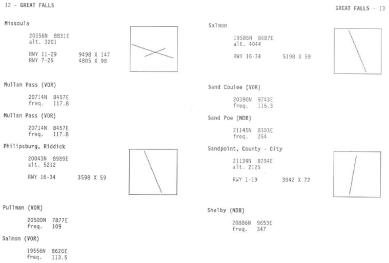


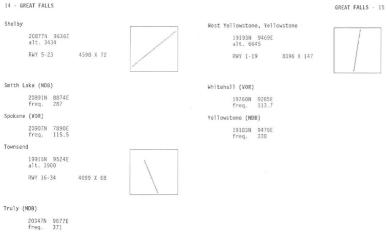


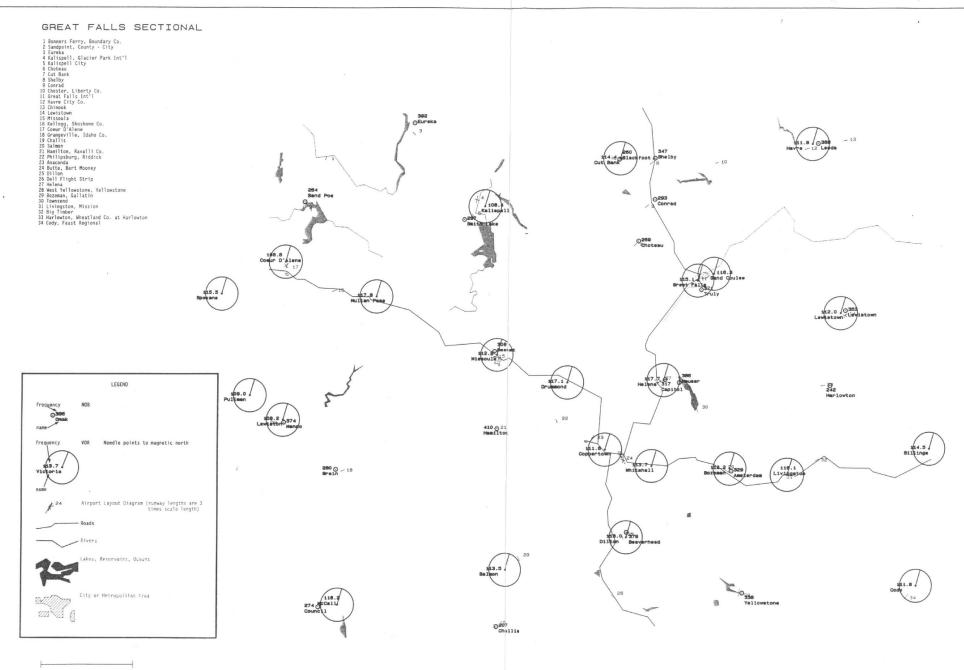












Abeta (NDB) 18912N 5055E freq. 233

Alkali Lake State 19309N 6624E alt. 4313

RWY 17-35 6149 X 147

Alturas (NDB) 18716N 6231E

freq. 215

Alturas

alt. 4376 RWY 13-31

18711N 6223F



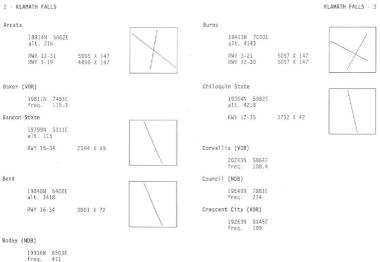


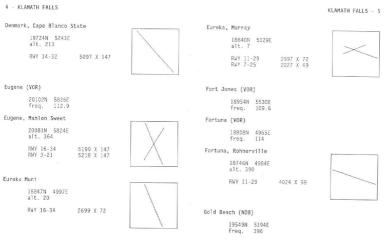
KLAMATH FALLS - 1

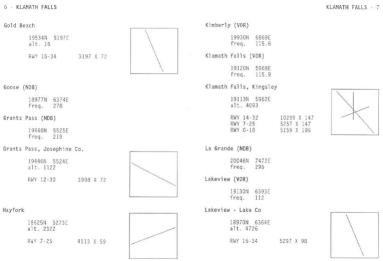
4296 X 49 RWY 3-21 3457 X 59

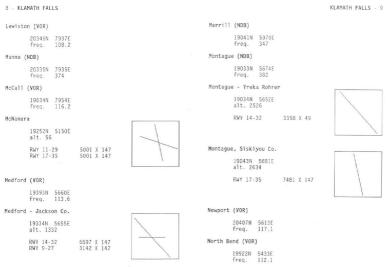
Arcata (VOR)

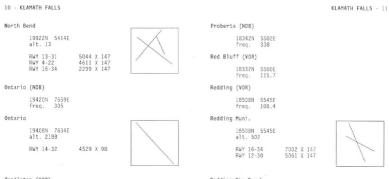
18923N 5058E freq. 110.2











Pendleton (VOR) 20275N 7250E freq. 114.7

> 19896N 6527E alt. 3247 RWY 10-28

RWY 15-33

4998 X 59

3998 X 39

Prineville

Redding Sky Ranch

2397 X 39

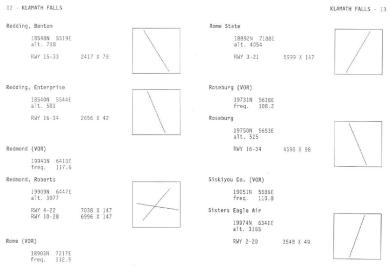
18514N 5511E

alt. 502

RWY 12-30

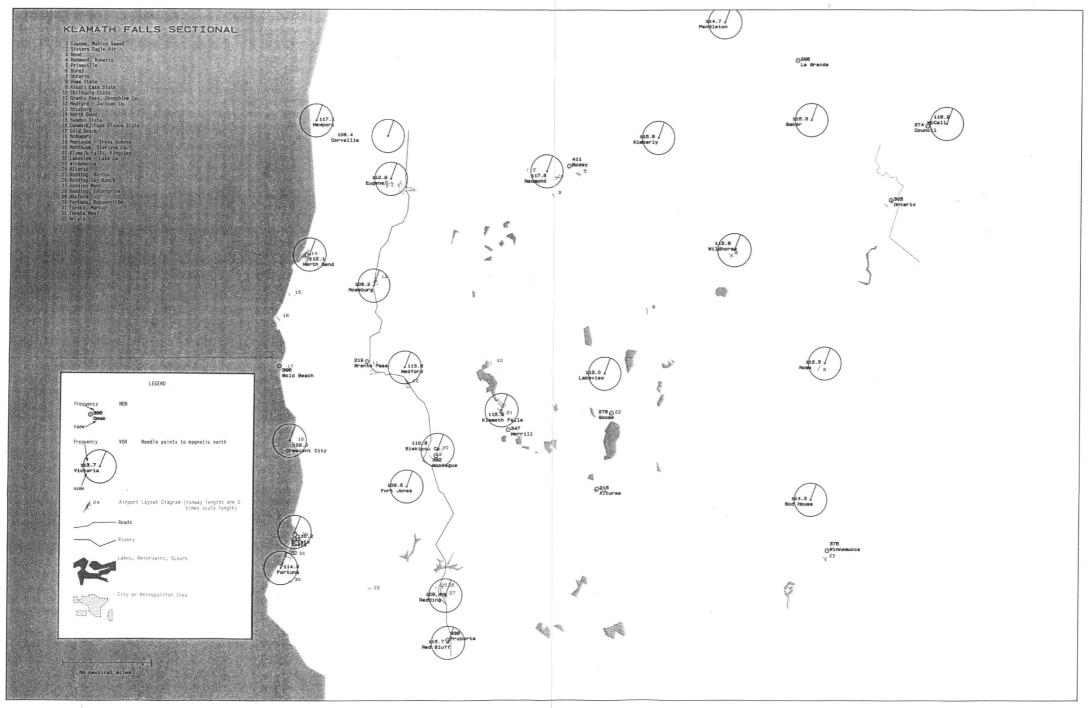






14 - KLAMATH FALLS Sod House (VOR) 18421N 7010E freq. 114.3 Walla Walla (VOR) 20367N 7490E freq. 116.4 Wildhorse (VOR) 19427N 7018E freq. 113.8 Winnemucca (NDB) 18215N 7013E freq. 375 Winnemucca





SEATTLE - 1

Arlington 21619N 6744F alt. 138

RWY 16-34 5329 X 98 RWY 11-29 2797 X 72

Astoria (VOR)

21009N 5937E

RWY 3-21

21017N 5941E freq. 114

Astoria, Port of Astoria

RWY 8-26 RWY 13-31

Baker (VOR)

19811N 7453F freq. 115.3

Bellingham (VOR)

21979N 6763F freq. 113

5795 X 147

3981 X 196

5057 X 196

Bellingham Int'l

21911N 6748E
alt. 157

RWY 16-34 4998 X 147

RWY 16-34 6097 X 72

SEATTLE - 3

5549 X 147

4296 X 147

Bremerton Nat'1

21414N 6473E
alt. 482

RWY 1:19 6199 X 147

Ellensburg (VOR)

20975N 7025E
freq. 117.9

Ellensburg, Sowers

20986N 7006E alt. 1/55 Burlington, Shagit Reg./Bay View RWY 7-25 21772N 6727E RWY 11-29

2 - SEATTLE

RWY 12-30

RWY 12-30

2181 X 72

2181 X 72

21772N 6727E alt. 141 RWY 10-28 5362 X 147 RWY 3-21 5080 X 147 Ephrata (VOR)

RWY 10-25 3362 X 147 Ephrata (VOR)

RWY 3-21 5080 X 147 Ephrata (VOR)

21009N 7366E freq. 112.5

21114N 6271E alt. 75 RWY 1-19 4998 X 147 RWY 15-33 4998 X 147 RWY 2-20 6697 X 147 Everett, Snohomish Co Kitsap (NDB) 21532N 6670E 21415N 6474E





4496 X 147

3056 X 72

4 - SEATTLE

alt. 604

RWY 3-21

RWY 3-21

20899N 6207E freq. 256

Kelso (NDB)

Lewiston - Nez Perce

20358N 7894E alt. 1437 RWY 8-26 RWY 11-29

20346N 7937E freq. 108.2

Lewiston (VOR)

freq. 206

6510 X 147 4998 Y 98

SEATTLE - 5

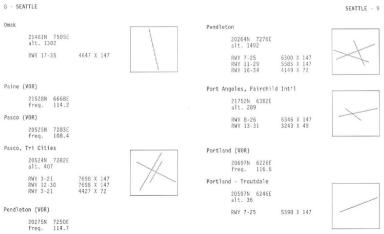
Lummi (NDB) 21913N 6748F

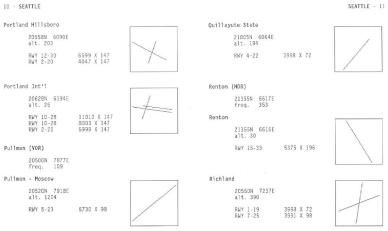
Kelso - Longview 20882N 6202E alt. 16 freq. 385

RWY 11-29 4391 X 98

Manno (NDB) 20335N 7935F freq. 374

6 - SEATTLE SEATTLE - 7 Mason Co (NDB) Newport 21359N 6342E 20410N 5615E freq. 348 alt. 161 McChord (VOR) RWY 16-34 5077 X 147 RWY 2-20 5077 X 147 21245N 6492E freq. 109.6 Moses Lake, Grant Co Ocean Shores 20930N 7370E 21386N 6008E alt. 1184 alt. 10 RWY 14-32 13500 X 298 RWY 14-32 2692 X 59 RWY 3-21 9997 X 196 RWY 0-18 3250 X 72 RWY 14-32 3024 X 72 Neah Bay (NDB) Olympia (VOR) 21969N 6139E 21226N 6345E freq. 301 freq. 113.4 Newberg (VOR) 01ympia 20586N 6051E 21226N 6346E freq. alt. 207 Newport (VOR) RWY 17-35 5398 X 147 RWY 8-26 4998 X 147 20407N 5613E freq. 117.1 Omak (NDB) 21458N 7502E freq. 395





SEATTLE - 13 Salem, McNary Shelton, Sanderson 20413N 5967E 21361N 6320E alt. 210 alt. 279 RWY 13-31 5808 X 147 RWY 17-35 5290 X 147 RWY 16-34 5133 X 147 RWY 5-23 5047 X 98 Seattle (VOR) Spokane (VOR) 21343N 6584E 20907N 7890E freq. 116.8 freq. Seattle - Tacoma, Henry M. Jackson Spokane Int'l

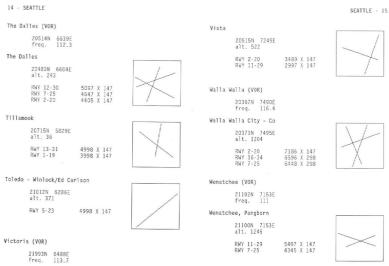
12 - SEATTLE



Seattle, Boeing Fld/King Co	Tacoma Narrows	
21379N 6599E alt. 16 RWY 13-31 10000 X 196 RWY 13-31 3709 X 98	21310N 6492E alt. 292 RWY 17-35 5001 X 147	



21955N 6111E freq. 112.2



16 - SEATTLE

Yakima (VOR)

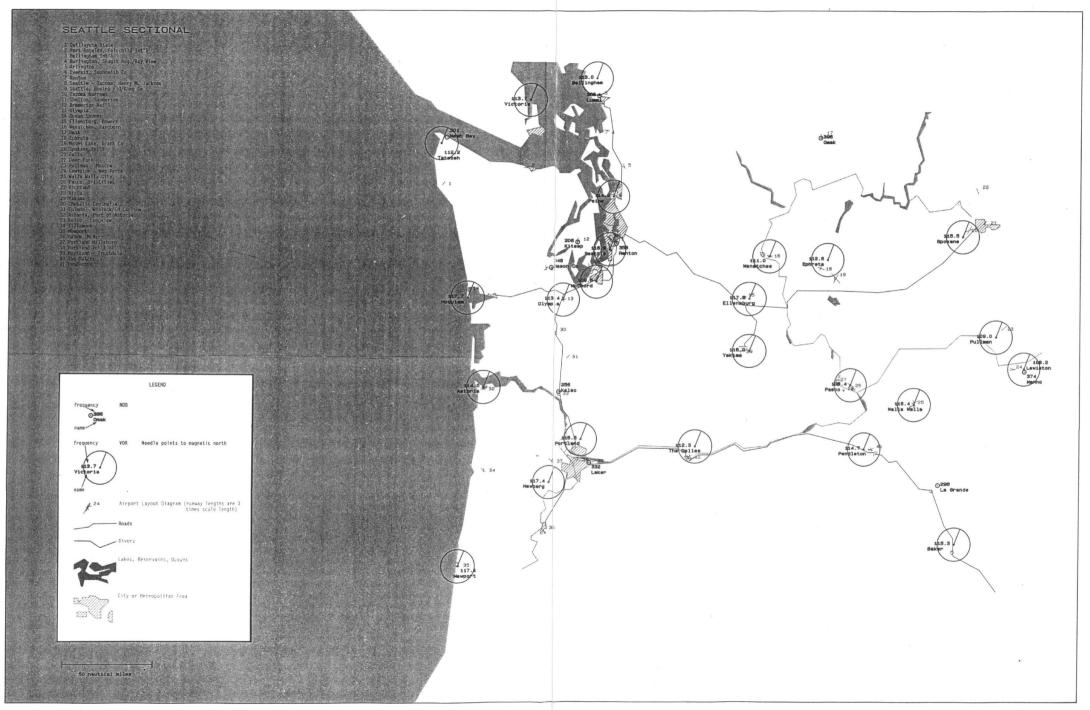
20787N 6957E freq. 116

Yakima

20796N 6928E alt. 1096 RWY 9-27 RWY 4-22

7599 X 147 4290 X 147





CHEYENNE - 1

Akron (VOR) 16767N 11508E freq. 114.4 Alliance (VOR) 17564N 11750E freq. 111.8

Alliance

17564N 11750E alt. 3929 RWY 12-30 9200 X 147 6340 X 147 RWY 8-25 RWY 17-35 6310 X 72



Antelope (NDB) 17731N 9745F freq. 290

Antioch (NDB) 17544N 11759F

freq. 287

Boysen Reservoir (VOR)

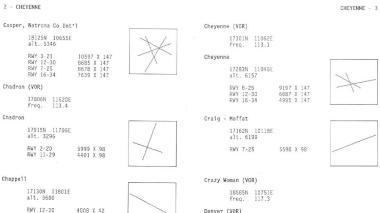
18473N 10132F

freq. 117.8

Casper (VOR)

18190N 10728F

freq. 116.2



16713N 10923E freq. 117

18652N 11053E

freq. 380

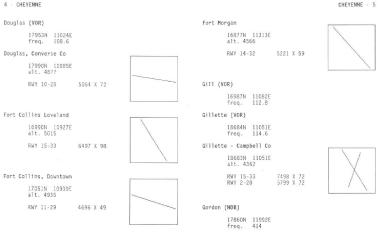
Deryk (NDB)

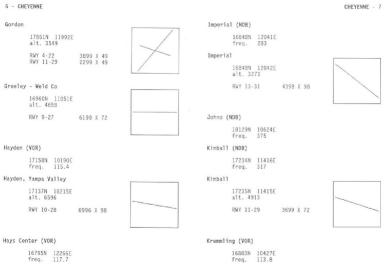


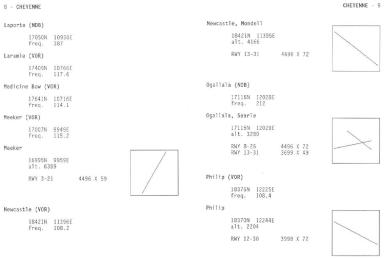
17701N 10207F

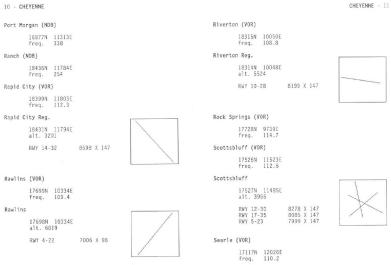
freq. 112.2

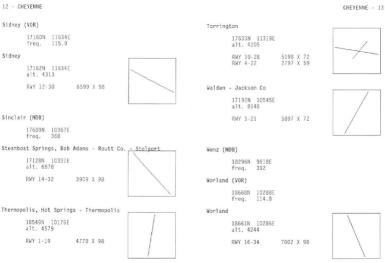
Cherokee (VOR)

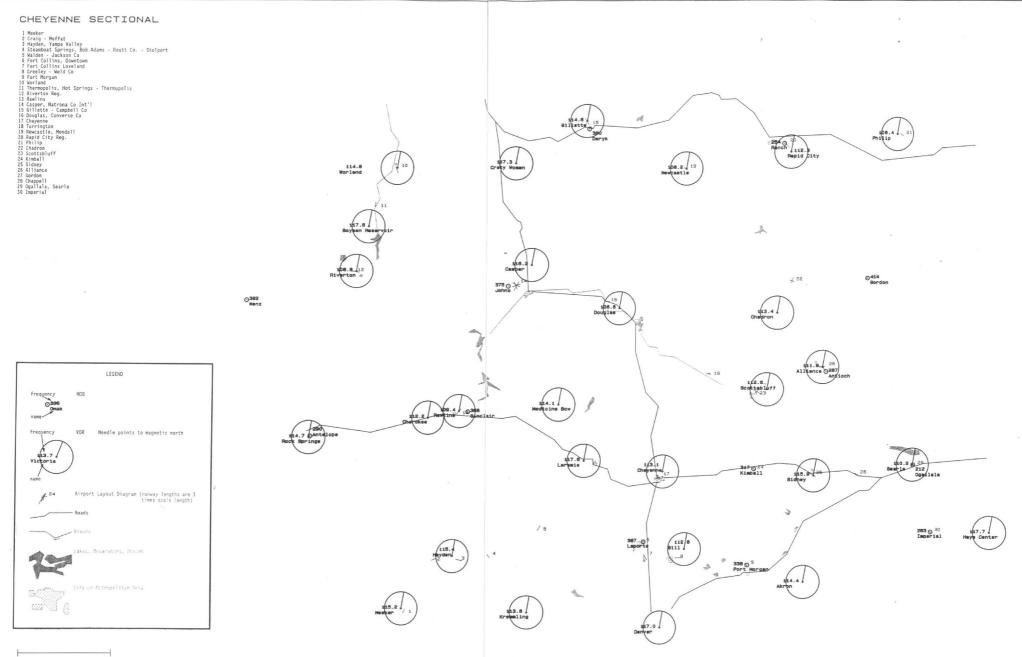










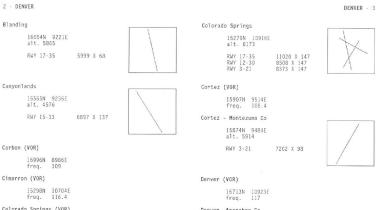


50 nautical miles

DENVER - 1 Alamosa (VOR) 15716N 10442E freq. 113.9 Alamosa - Bergman 15761N 10434E alt. 7534 RWY 2-20 8498 X 98 Aspen - Pitkin Co, Sardy Fld. 16576N 10225E alt. 7793 RWY 15-33 7002 X 98 Aztec (NM) 15637N 9647E alt. 5878

2847 X 39

RWY 8-26 4296 X 49 RWY 4-22





RWY 16-34

RWY 10-28

5146 X 75

4900 X 59

Colorado Springs (VOR) Denver, Arapahoe Co 16333N 10952F 16615N 10919E

freq. 112.5 alt. 5871 RWY 16-34 8501 X 98

DENVER - 5 4 - DENVER Durango - La Plata Co Denver, Jeffco 15752N 9766E 16768N 10856E alt. 6685 alt. 5655 9197 X 147 RWY 2-20 RWY 11-29 7494 X 98 RWY 2-20 3598 X 72 3998 X 59 RWY 11-29 Farmington (NM) Denver, Stapleton 15609N 9571E 16704N 10926E alt. 5504 alt. 5333 RWY 7-25 6701 X 98 RWY 17-35 11998 X 196 RWY 5-23 6500 X 147 RWY 17-35 11499 X 147 RWY 8-26 10003 X 147 RWY 8-26 7924 X 147 RWY 7-25 4860 X 72 Farmington (VOR) 15603N 9618E freq. 115.3 Gill (VOR) Dove Creek (VOR) 16987N 11082E 16105N 9426E freq. 112.8 freq. 114.6 Grand Junctin, Walker Durango (VOR) 16637N 9671E 15753N 9770F alt. 4858 freq. 108.2

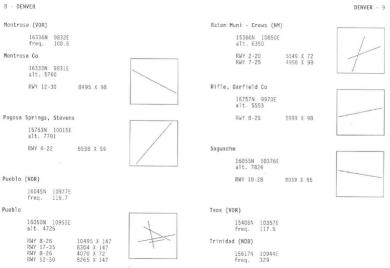
10499 X 147

5362 X 98

RWY 11-29

RWY 4-22

6 - DENVER DENVER - 7 Grand Junction (VOR) Lake Co 16625N 9577E 16546N 10411F freq. 112.4 alt. 9929 Gunnison (VOR) RWY 16-34 5297 X 72 16257N 10113E freq. 114.9 Hanksville (VOR) Laporte (NDB) 16487N 8892E 17050N 10930E freq. 115.9 freq. 387 Hanksville Maxwell (NDB) 16487N 8890E 15371N 10831E alt. 4444 freq. 284 RWY 8-25 5674 X 72 Meeker (VOR) 17007N 9949E freq. 115.2 Kiowa (VOR) Moab (VOR) 16527N 11082E 16565N 9232E freg. 117.5 freg. 109.8 Kremmling (VOR) Monte Vista, San Luis Valley 16883N 10427F 15809N 10375E freq. 113.8 alt. 7610 RWY 1-19 5999 X 49

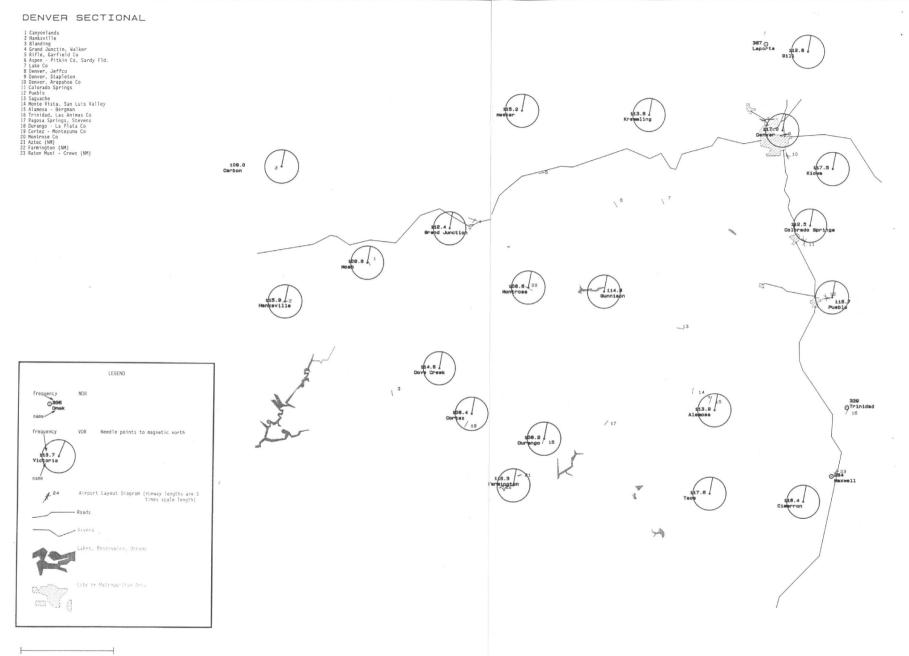


10 - DENVER

Trinidad, Las Animas Co

15602N 10938E alt. 5760

RWY 3-21 5493 X 98



SALT LAKE CITY - 1

freq. 290 Battle Mountain (VOR) 18047N 7135E freq. 112.2 Bear Lake (NDB)

18196N 9086E freq. 233

Antelope (NDB) 17731N 9745F

Big Piney (VOR) 18234N 9503E

freq. 116.5 Big Piney

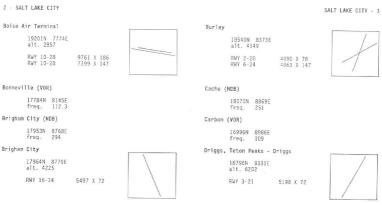
alt. 6973

18233N 9507E RWY 12-30

4496 X 72

Boise (VOR)

19203N 7768E freq. 113.3



Dubois (VOR)

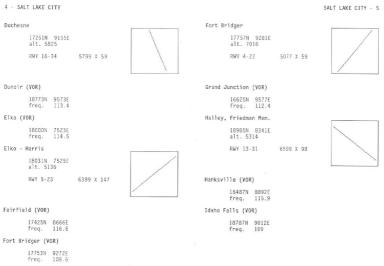
19038N 9039E

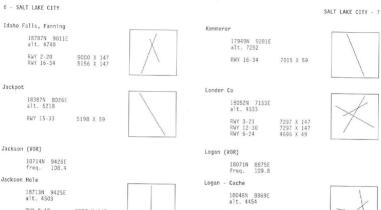
freq. 116.9

Burley (VOR)

18565N 8352E

freq. 114.1



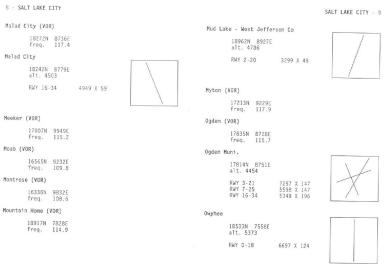


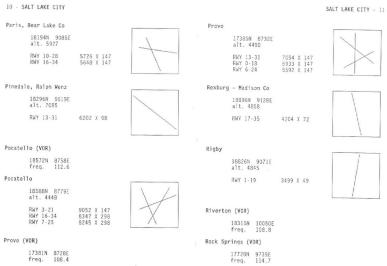


freq. 113.6

RWY 10-28 5011 X 98 RWY 5-23 5005 X 147

Lucin (VOR) 18055N 8201E













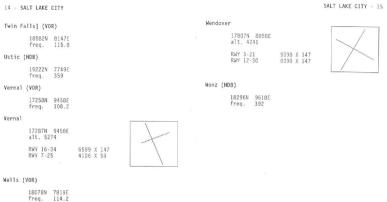
3207 X 98

RWY 12-30



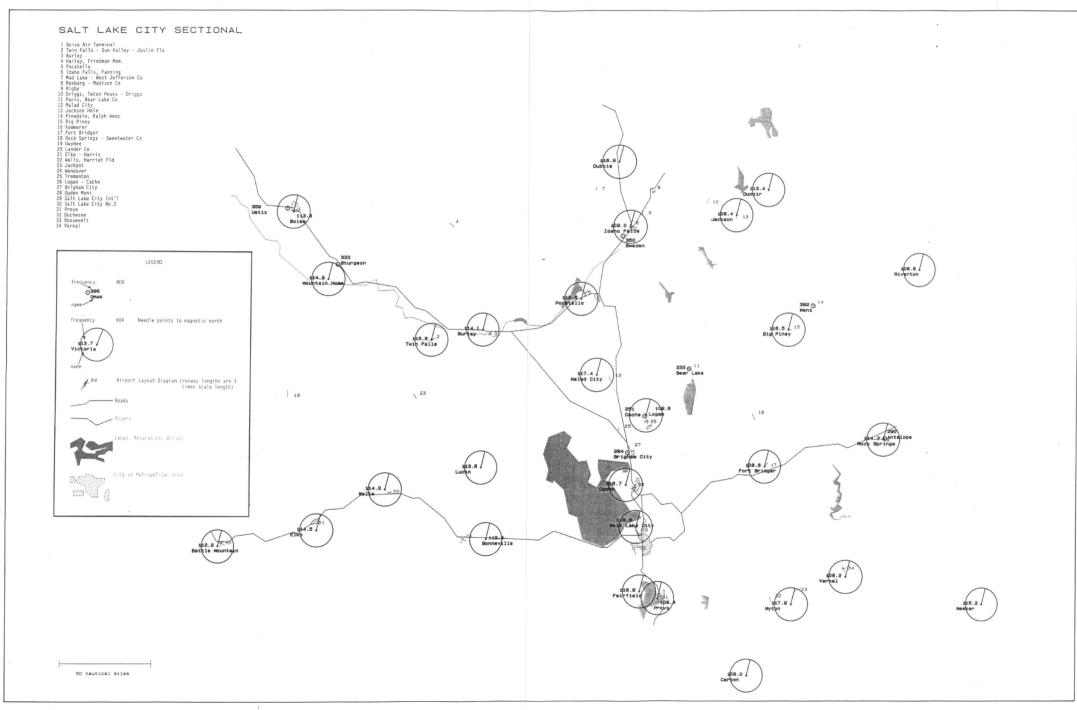






Wells, Harriet Fld 18061N 7833E alt. 5773 RWY 8-26

5497 X 147



KANSAS CITY - 1

Ava. Martin Mem. 15038N 14862E alt. 1302

15055N 13699E freq. 117.9

Bartlesville (VOR)

RWY 13-31 3598 X 49

Beatrice (VOR)

16641N 13597E freg. 110.6 Bilmart (NDB) 15034N 14859E

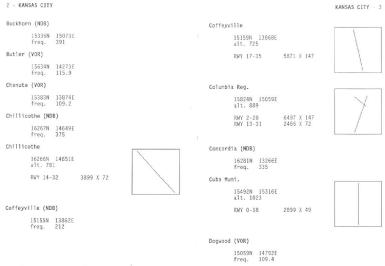
freq. 341 Brookfield (NDB)

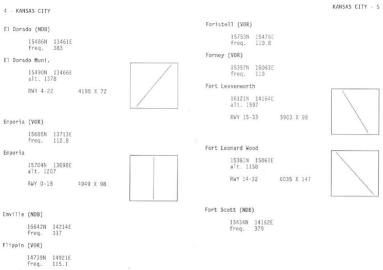
> 16249N 14780E freq. 383

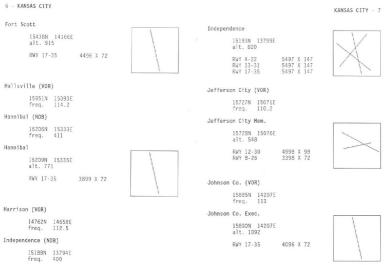
Brookfield Mem. 16249N 14782E

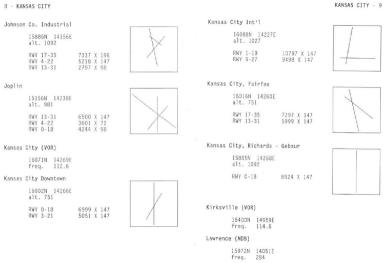
alt. 807

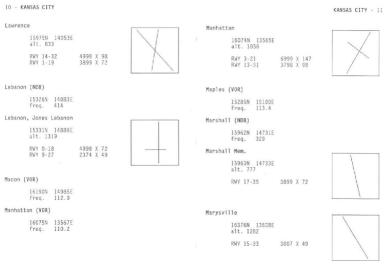
RWY 17-35 2997 X 49

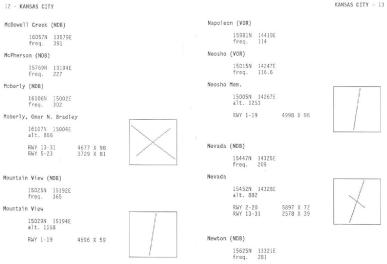


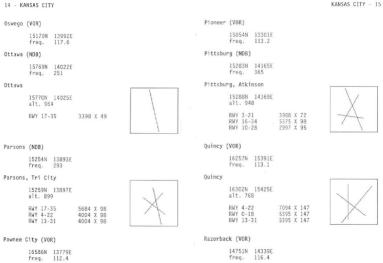












Springfield Reg. Rolla National 15522N 15200E 15169N 14624E alt. 1266 alt. 1148 7002 X 147 5497 X 147 RWY 1-19 RWY 4-22 5598 X 147 RWY 13-31 5497 X 147 RWY 13-31 Salina (VOR) St. Joseph (VOR) 16374N 14179E 15995N 13241E

115.3 freq. Sedalia (NDB) 15795N 14729F freq. 281

4998 X 98

3598 X 49

16 - KANSAS CITY

Sodalia Mom.

15797N 14730E alt. 909

15212N 14642F

RWY 0-18

RWY 5-23

Springfield (VOR)

frea. 116.9

16295N 14178E alt. 827 RWY 17-35 RWY 13-31 RWY 4-22

freq. 108.2

St. Joseph. Rosecrans Mem.

freq. Topeka (VOR)

> 16034N 13942E

freq. 117.8 8058 X 147 5999 X 98 5097 X 98

KANSAS CITY - 17

Tiger (VOR)

15893N 15010E



freq. 117.7

West Plains (NDB)

14922N 15138E freq. 335

West Plains

14925N 15141E alt. 997 RWY 14-32









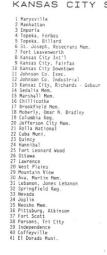


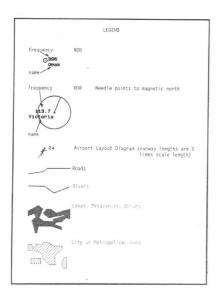


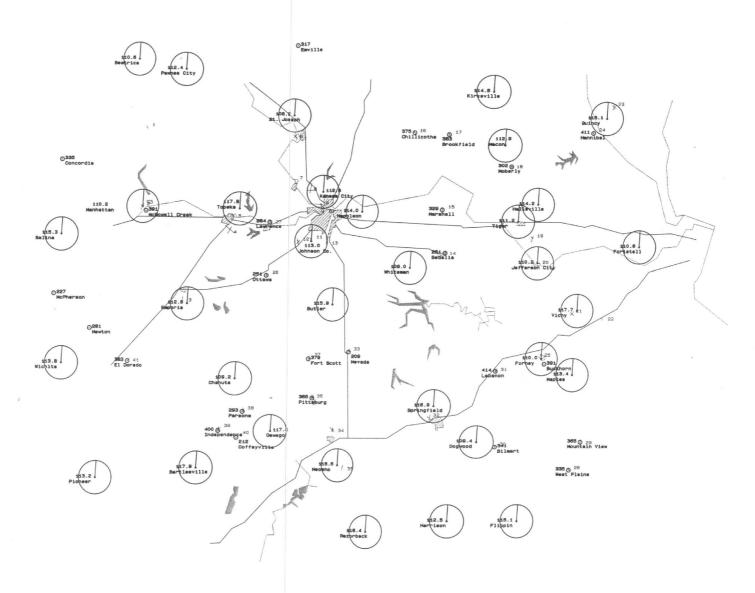




KANSAS CITY SECTIONAL







50 nautical miles

17697N 12617E freq. 112.7 Ainsworth

17695N 12618F alt 2588

RWY 17-35 6799 X 147 RWY 12-30 5497 X 88

Albert Lea (VOR)

18074N 14727E freq. 109.8

Albert Lea 18074N 14728E

alt. 1256

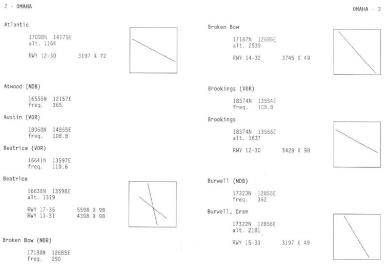
RWY 16-34 4496 X 98 RWY 4-22 2899 X 72

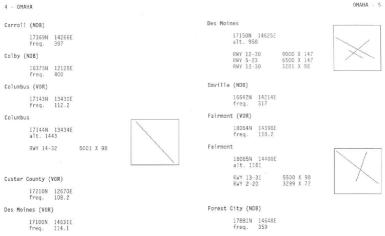
Amoni (VOR)

16736N 14521E freq. 116.7

Atlantic (NDB)

17096N 14177E freq. 365





Forest City Gorin, Wiley 17884N 14646E 18042N 12693E alt. 1230 alt. 2034 RWY 15-33 5799 X 98 RWY 13-31 3899 X 72 RWY 9-27 2599 Y 59

Fort Dodge (VOR) Grand Island (VOR) 17614N 14431E freq. 113.5

16962N 13103E freq. 112 Grand Island, Hall Co. Reg. alt 1847

16954N 13103E



OMAHA - 7

RWY 4-22 RWY 17-35 RWY 13-31 Greenfield (NDB)

7186 X 147 6999 X 147 6605 X 147

Fremont (NDB)

3798 X 98

2351 X 49

5546 X 147

4398 X 98

17058N 14371E freq. 338

17129N 13696F freq. 287 Fremont

RWY 0-18

17590N 14462E

alt. 1158

RWY 6-24

RWY 12-30

Greenfield

alt. 1364

17059N 14371E

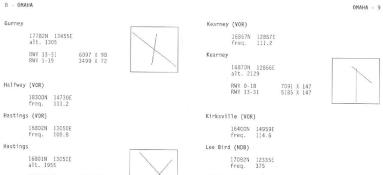
RWY 13-31 2499 X 49



17128N 13697F alt. 1204 RWY 13-31

6 - OMAHA

Fort Dodge



Lincoln

16876N 13608E

12900 X 196

8619 X 147

5497 X 98

alt. 1214

RWY 17-35

RWY 14-32

RWY 17-35

RWY 14-32 Lincoln (VOR) 5598 X 98 RWY 4-22 4496 X 72 16906N 13616E freq. 116.1

Huron Reg.





alt. 1289

RWY 12-30

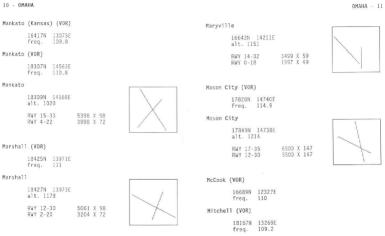
RWY 17-35

18433N 13227F



7199 X 147





12 - OMAHA OMAHA - 13



Newton (VOR)

Mitchell

17130N 13980E

18165N 13270E

alt. 1302 RWY 12-30

RWY 17-35

freq. 117.1

6701 X 147

5503 X 147

17249N 14807E freq. 112.5

Norfolk (VOR) 17378N 13413E

freq. 109.6 Norfolk, Stefan Mem.

17376N 13413F alt. 1571

RWY 1-19 5799 X 147 RWY 13-31 5799 X 147

North Platte (VOR)

17054N 12310E freq. 117.4



17086N 12332E alt. 2778

RWY 17-35 O'neill (VOR) 17619N 13028E freq. 113.9

North Platte, Lee Bird Fld

RWY 12-30

RWY 12-30

RWY 8-26

0'neil1

17619N 13026E alt. 2030

RWY 13-31

Oberlin (NDB)

freq.

Omaha (VOR)

16999N 13950E freq. 116.3

16530N 12319E 341















7999 X 147

6599 X 98

4598 X 98







4398 X 72





14 - OMAHA OMAHA - 15 Omaha, Eppley Airfield Platte Center (NDB) 17060N 13902E 17165N 13420E alt. 984 freq. 407 RWY 14-32 8498 X 147 Plattsmouth (NDB) RWY 17-35 5002 X 147 RWY 14-32 4296 X 72 16910N 13885E freq. 329 Ord (NDB) Plattsmouth 17249N 12913F 16910N 13885E freq. 356 alt. 1200 Pawnee City (VOR) RWY 16-34 2997 X 49 16586N 13779E freq. 112.4 Phillipsburg (NDB) Sac City (NDB) 16416N 12730F

Salix (NDB)

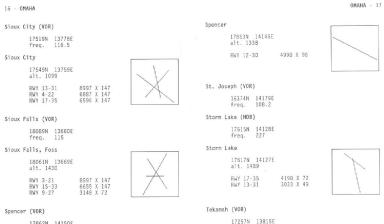
17512N 13789E freq. 414



alt. 1742 RWY 13-31

RWY 7-25

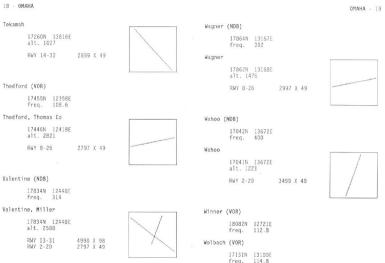
6887 X 147



108.4 freq.

17862N 14150F

110 freq.



Worthington (VOR)

18073N 14037E freq. 110.6

20 - OMAHA

alt. 1574

RWY 17-35

RWY 11-29

5503 X 147

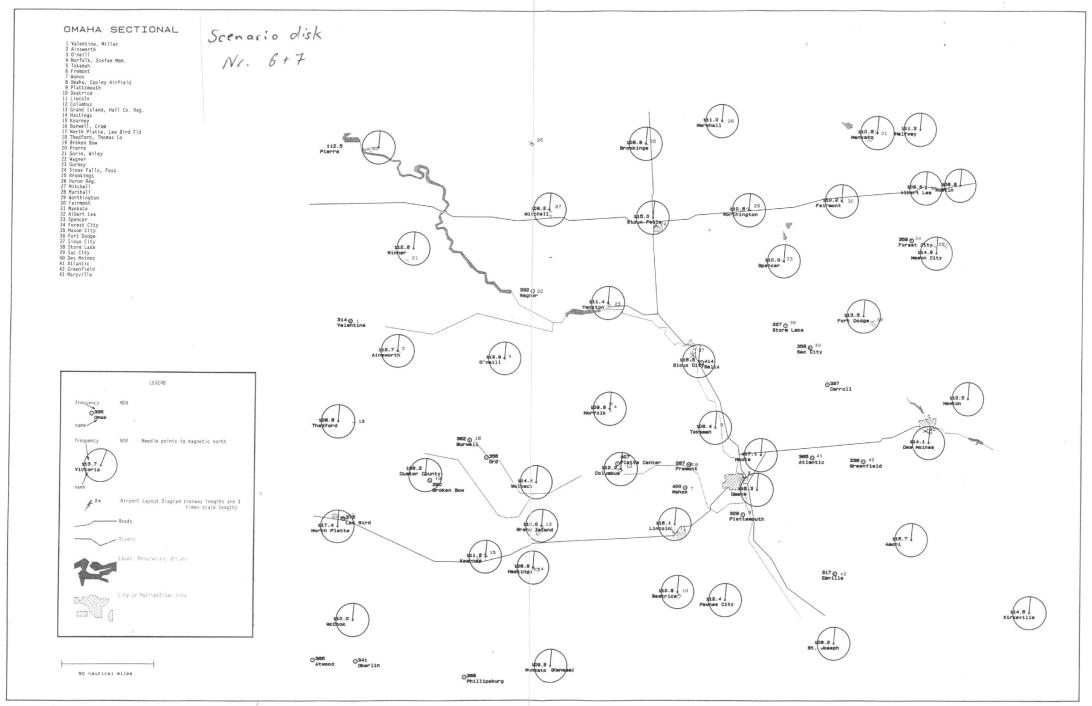
18077N 14038E

Worthington

4198 X 98

Yankton (VOR)

17784N 13452E freq. 111.4



WICHITA - 1

Anthony (VOR)

Akron (VOR)

15270N 12972E freq. 112.9 Atwood (NDB)

16800N 11472E freq. 114.4

16555N 12157F freq. 365 Atwood - Rawlins Co

> 16555N 12156E alt. 2978 RWY 16-34 3099 X 49

Bear Creek (NDB) 15639N 11782F

freq. 341

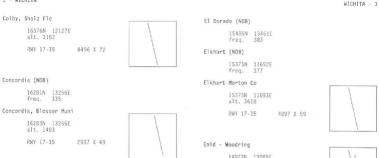
Beatrice (VOR)

16641N 13597E

Colby (NDB)

freg. 110.6

16375N 12128E freq. 400





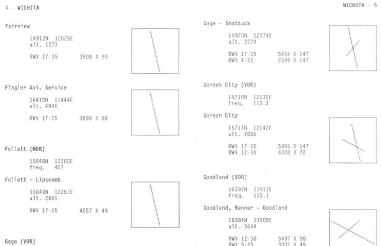
RWY 2-20 5041 X 72 15647N 12382E RWY 12-30 5510 X 108 freq. 108.2

2 - WICHITA

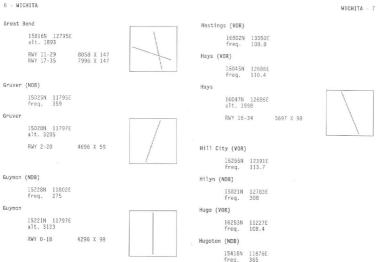
Fairview (NDB)

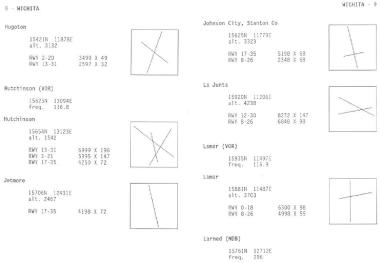
Dodge City 15610N 12390E 14911N 12828E

alt. 2594 freq. 246 RWY 14-32 5995 X 98 RWY 2-20 4647 X 98



14994N 12338E freq. 115.6





WICHITA - 11 Larned - Pawnee Co. Lyons - Rice Co 15763N 12711E 15785N 13013F alt. 2011 alt. 1692

Leoti, Mark Hoard Mem. 15978N 11967E alt. 3303 RWY 17-35 3158 X 42 RWY 8-25 2459 X 45

7097 X 147

7097 X 147

6996 X 147

3548 X 59







Mankato (Kansas) (VOR)

Manhattan (VOR)

RWY 17-35

16075N 13567E

freq. 110.2

16417N 13075F freq. 109.8

2997 X 49

McDowell Creek (NDB)



freq. 391

McPherson (NDB) 15769N 13194F freq. 227

Lyons (NDB) 15786N

15348N 12004E

freq. 112.3

15349N 12009F

alt. 2886

RWY 17-35

RWY 12-30

RWY 3-21

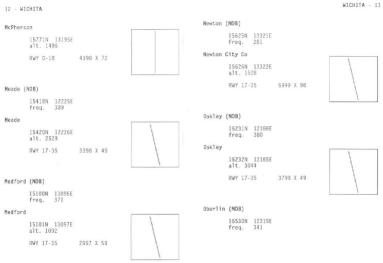
10 - WICHITA

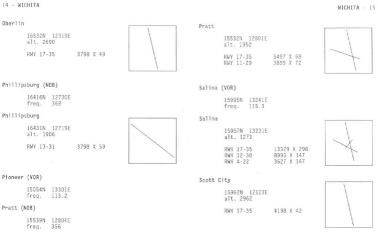
Liberal (VOR)

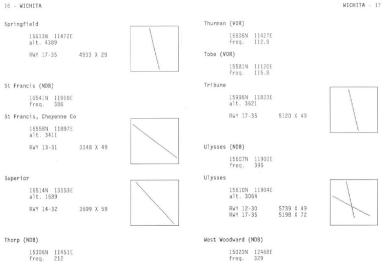
Liberal

RWY 17-35

13013F freq. 386







18 - WICHITA

Wichita (VOR)

15501N 13202F freq. 113.8

Wichita Mid - Continental

15460N 13250F alt. 1332

RWY 1-19 10299 X 147

RWY 1-19 7301 X 147 RWY 14-32

Woodring (VOR) 14919N 13065E

freq. 109 Woodward, West Woodward

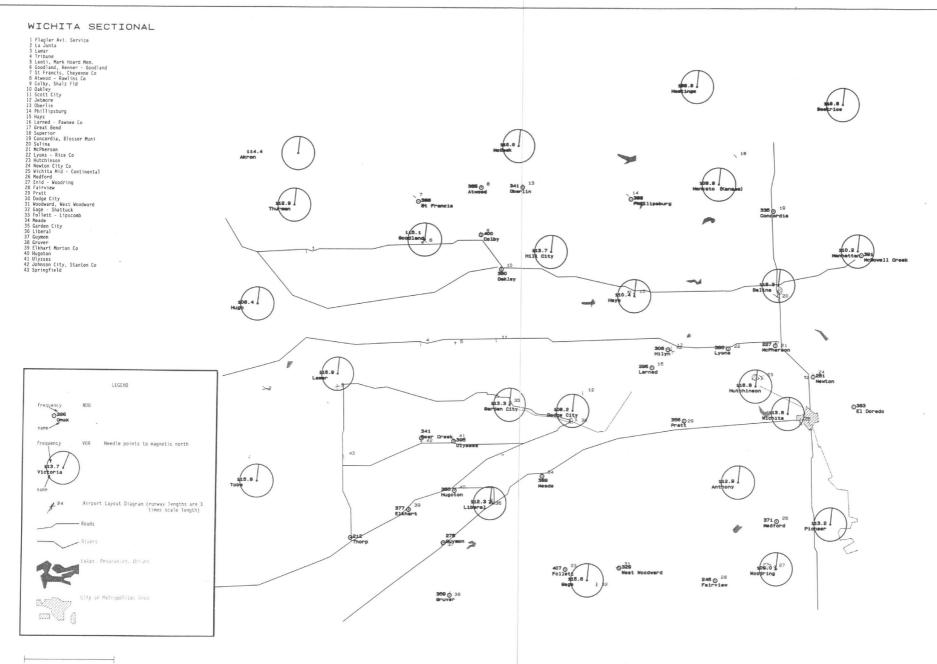
15022N 12469E

alt. 2188

RWY 5-23 RWY 11-29 PWY 17-35

5497 X 147 5497 X 147

6300 X 147



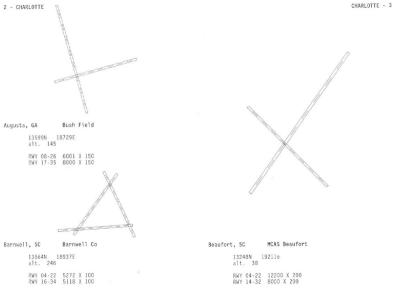


Aiken, SC Aiken Muni 13724N 18819E alt. 529

J.

RWY 06-24 5000 X 100 RWY 18-36 3800 X 75

Allendale, SC Allendale Co 13454N 18991E alt. 160 RMY 17-35 3200 X 75





13448N 19417E alt. 46 RWY 03-21 7000 X 150

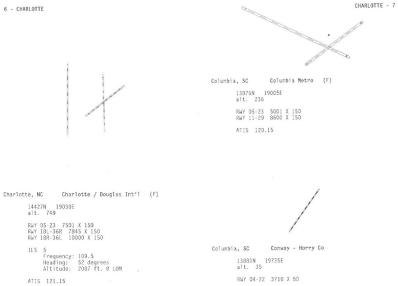
RWY 15-33 9001 X 200

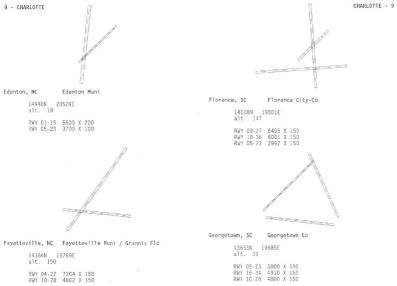


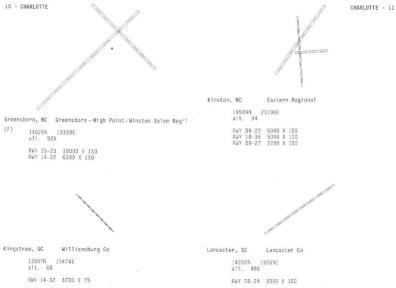
Charleston, SC Charleston AFB/Int'l

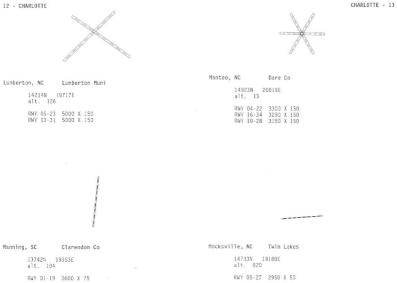
13366N 19462E alt. 20

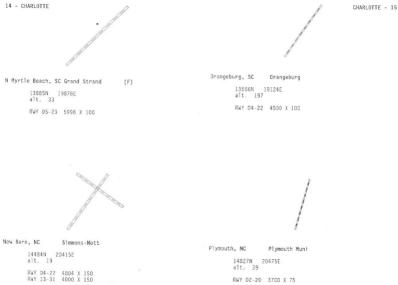
RWY 03-21 5000 X 150 RWY 09-27 5000 X 150

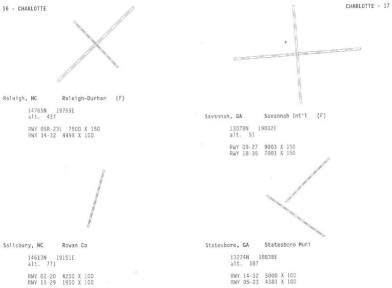


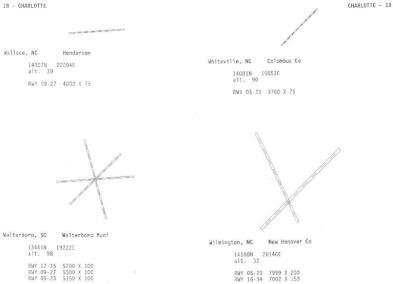


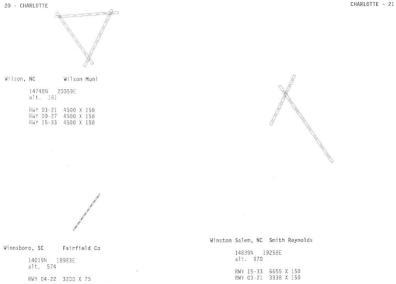




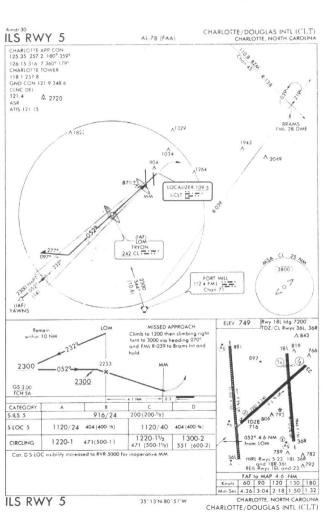






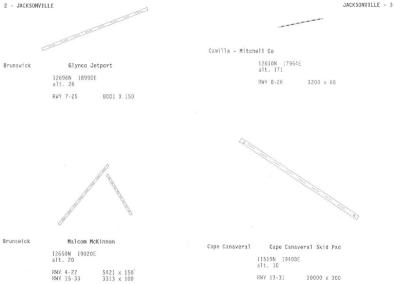


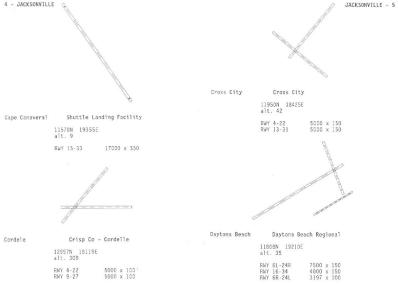
22 - CHARLOTTE	СН	IARLOTTE - 23	
Allendale (VOR)	Fort Mill (VOR)		
13467N 18967E freq. 116.7	14330N 19033E freq. 112.4		
Barretts Mountain (VOR)	Grand Strand (VOR)		
14703N 18907E freq. 110.8	13886N 19869E freq. 117.6		
Charleston (VOR)	Greensboro (VOR)		
13449N 19427E freq. 113.5	14810N 19345E freq. 116.2		
lotte (VOR) Kinston (VOR)			
14423N 19028E freq. 110.6	14612N 20214E freq. 109.6	OTTE	
Chesterfield (VOR)	New Bern (VOR) Tar River	(VOR)	
14201N 19283E freq. 108.2		849N 20142E eq. 117.8	
Columbia (VOR)	Raleigh - Durham (VOR) Vance (VOR	- Durham (VOR) Vance (VOR)	
13837N 19030E freq. 114.7		688N 19259E eq. 110.4	
Fayetteville (VOR)	Sandhills (VOR) Wilmington	(VOR)	
14385N 19771E freq. 108.8		145N 20151E eq. 117	
Florence (VOR)	Savannah (VOR) Wright Bro	thers (VOR)	
14038N 19518E freq. 115.2		900N 20845E eq. 111.6	

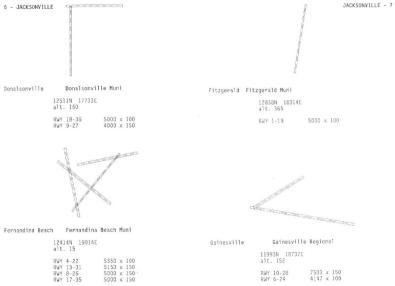


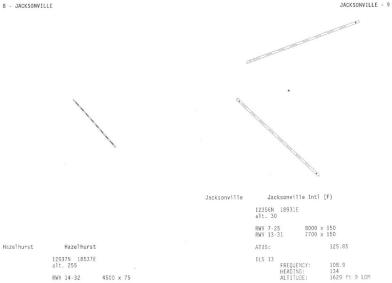
AIRPORT DIRECTORY - CHA	RLOTTE AREA	CHARLOTTE AREA CHART
	H EAST ALT. F ILS	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
	H EAST ALT. F. ILS. (Flaw) Freq. 44 18819 529 44 18991 160 99 18729 145 48 19211 38 8 19417 46 6 19462 20 77 19030 749 * 109.5/5 6 1905 236 * 1 19735 35 0 20524 19 6 19769 190 8 19501 147 3 19685 39 1 19736 39 1 19747 68 9 20196 94 8 19069 486 9 19069 486 1 197717 126 2 19353 104	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION. WINSTON SALEM SMITH REYNOLDS GREENSBORD HIGH POINT WINSTON SALEM WIN
Marteo Dare Co. 14923	3 19180 820 19876 33 * 4 20415 19 5 19124 197 20475 39 5 19769 437 * 3 19151 771 4 18838 187 7 20094 39 19222 98 19853 90 3 20146 32 20059 161 18983 574	RALEIGH-BÜRHAM ROWAN CO. CHARLOTTE DOUGLAS INTL ATIS 121.15 SANDHILLS 111.8 FAYETTEVILLE MUNI GRANNIS FLD WINNSBORD FAIRFIELD FAYETTEVILLE LUMBERTON WHISON RINGTON 113.6 FAYETTEVILLE LUMBERTON WHITEVILLE SANDHOUSLAS FAYETTEVILLE LUMBERTON WHITEVILLE SANDHOUSLAS FAYETTEVILLE LUMBERTON WHITEVILLE SANDHOUSLAS NEW BERN SIMMONSNOTI
SANTA MONICA ATIS 119.15 175-50 NAME FREQUENCY Civil-Public use airp Advisory Frequence Elevation (feet) — I	cy (if available) Length (hundreds of feet)	COLUMBIA METRO ATIS 120.15 AIKEN MUNI ORANGEBURG ORANGEBURG WILLIMOSTON NEW HANDVER NEW HANDVER HORRY CO WILLIAMSBURG CO. GRAND STRAND GRAND STRAND GRAND STRAND GRAND STRAND GRAND STRAND
NAME FREQUENCY S VORIDME	Measuring Equipment Able)	BARNWELL CO. GEORGETOWN ALLENDALE CO. CHARLESTON AFB INTL
FREQUENCY Non Directional Bear Non Direction Bear Non Directio	on an airport, only the airport vn. The VOR facility type is	ALLENDALE 116.7 Nautical Miles CHARLESTON CHARLESTON CHARLESTON EXECUTIVE North and east coordinates are canted at
AIRPORT NAME ABBREVIATIONS , CO County FLD Field INTL International MUNI Municipal	e _e	North and east coordinates are canted at + 7° (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection.



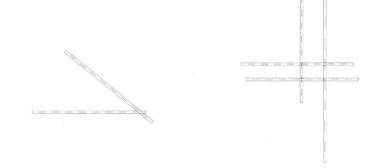




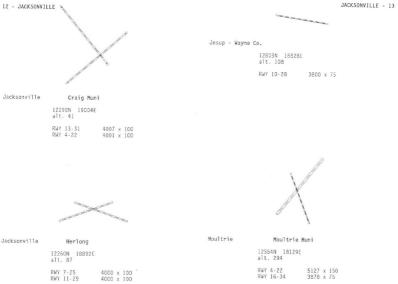


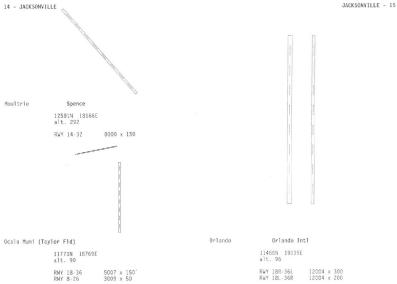


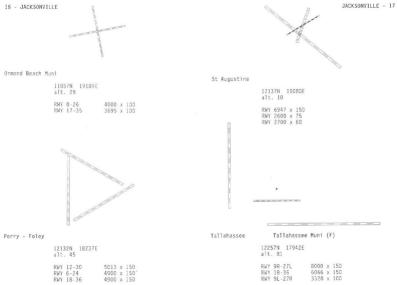
JACKSONVILLE - 11 10 - JACKSONVILLE

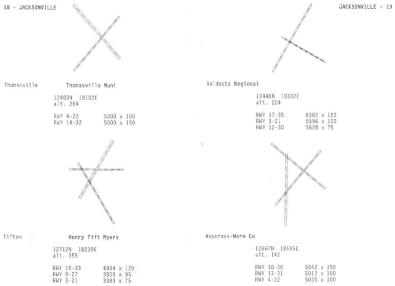


		Jacksonville	Cecil Fiel	ld NAS
Jacksonville	Jacksonville NAS		12238N 18861E alt. 80	
	12247N 18942E alt. 22		RWY 18L-36R RWY 9L-27R	12500 x 200 8000 x 200
	RWY 9-27 8000 x 200' RWY 13-31 5977 x 200		RWY 9R-27L RWY 18R-36L	8000 x 200 8000 x 200









JACKSONVILLE - 21

20 - JACKSONVILLE

Donalsonville (NDB) 11463N 18701E 12512N 17735E freq. 278 freq. 352 Brunswick (VOR) Gainesville (VOR)

12606N 19005F 11939N 18706E freq. 109.8 freq. 116.2 Geiger Lake (NDB)

Caidy (NDB) 12472N 18003E 11562N 19315E freq. 338 freq. 375 Camilla (NDB) Herlong (NDB)

12610N 17965E 12261N 18893F freq. 369 freq. 332 Cape Canaveral (NDB) Homerville (NDB)

11515N 19429E 12576N 18511E freq. 313 freq. 209

Cross City (VOR) Jacksonville (VOR)

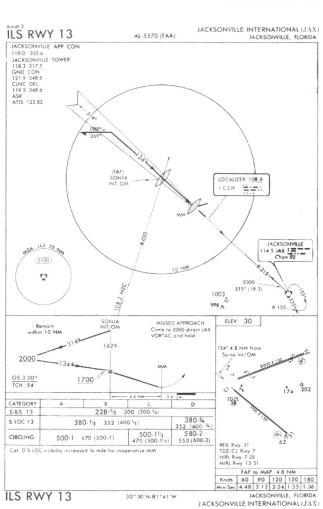
11933N 18447E 12299N 19003F freq. 112 freq. 114.5

Deland (NDB) Kissimmee (NDB)

freq. 329

11753N 19131E 11415N 19099F freq. 201

22 - JACKSONVILLE		JACKSONVILLE - 23
Lakeland (VOR)	Satellite (NDB)	
11251N 18885E freq. 116	11355N 19383E freq. 257	
Leesburg (NDB)	Savannah (VOR)	
11631N 18934E freq. 335	13103N 19057E freq. 112.7	24 - JACKSONVILLE
Melbourne (VOR)	St Augustine (VOR)	Tift Myers (VOR)
11358N 19399E freq. 110	12140N 19073E freq. 109.4	12712N 18235E freq. 112.5
Ocala (VOR)	St Johns (NDB)	Valdosta (VOR)
11773N 18768E freq. 113.7	12322N 19045E freq. 306	12402N 18332E freq. 110.4
Orlando (VOR)	St. Petersburg (VOR)	Vidalia (NDB)
11527N 19127E freq. 112.2	11203N 18631E freq. 116.4	13076N 18622E freq. 372
Ormond Beach (VOR)	Tallahassee (VOR)	Wakul (NDB)
11859N 19185E freq. 112.6	12326N 17928E freq. 117.5	12227N 17938E freq. 379
Patten (NDB)	Taylor (VOR)	Waycross (VOR)
12510N 18123E freq. 245	12340N 18607E freq. 112.9	12672N 18581E freq. 110.2
Sanford (NDB)	Taylor (VOR)	Wynds (NDB)
11629N 19156E freq. 408	12342N 18605E freq. 112.9	11986N 18777E freq. 269



AIRPORT	DIRECTORY - J	JACKS	IIVNC	LE /	ΔRFΔ	JACKSONVILLE AREA CHART
CITY	AIRPORT	NORTH		ALT.	F ILS	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Alma	Bacon Co.	12789	18598	201	uel) (Rwy/Freq)	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Brooksville	Hernando Co.	11461	18702	76		VIDALIA, GA 372 SAVANNAH SAVANNAH
Brunswick	Glynco Jetport	12696	18990	26		372 112.7
Brunswick	Malcom Mckinnon	12650	19020	20		CRISP CO. CORDELE
Camilla Cape Canaveral	Mitchell Co. Canaveral Skid Pad	12610 11519	17964 19408	171 10		A STATE OF THE STA
Cape Canaveral	Shuttle Landing Facility	11578	19355	9		HAZELHURST
Cordele	Crisp Co Cordele	12957	18119	308		4 5
Cross City Daytona Beach	Cross City	11950	18425	42		FITZGERALD MUNI
Donalsonville	Daytona Beach Regional Donalsonville Muni	11808 12511	19210 17733	35 160		ALMA, GA 115.1
	Fernandina Beach Muni	12414	19014	15		TIFT MYERS, GA
Fitzgerald	Fitzgerald Muni		18314	365		112.5 BACON CO. WAYNE CO.
	Gainesville Regional Hazelhurst		18737 18537	152		1
	Jacksonville Int'l		18931	255 30	* 108.9/13	CAMILIA HENRY TIFT MYERS WARE CO.
ATIS 125.85		.2000	10001	00	100.5/10	SLYNCO JETPORT
Indiana di Ma	1-1					MITCHELL CO.
	Jacksonville NAS Cecil Field NAS		18942 18861	22 80		DONALSONVILLE SPENCE WAYCROSS, GA
	Craig Muni		19004	41		352 THE MOULTRIE MUNI AMAGOM MCKINNO THE MUNI THE MU
Jacksonville	Herlong	12260	18892	87		
	Wayne Co. Moultrie Muni		18828	108		DONAL SOADULE ALIMI
	Spence		18129 18166	294 292		209
Ocala (Taylor)	Ocala Muni (Taylor)		18769	90		THOMASVILLE MUNI
	Orlando Int'I		19139	96		TAILAHASSEE, FL VALDOSTA REGIONAL FERNADINA BEACH MUNI
	Ormond Beach Muni Folev		19184 18237	29 45		JACKSONVILLE
	St. Augustine		19080	10		VALDOSTA, GA
	Tallahassee Muni	12257	17942	81		110.4 JOHNS ST JOHNS
	Thomasville Muni Henry Tift Myers		18102 18239	264 355		TAYLOR, FL TAYLOR, FL
	Valdosta Regional			204		TALIAHASSEE MUNI 18 112.9 HERLONG 332 CRAIG MONI
	Ware Co.			142		WAKUL CECIL FIELD NAS CECIL FIELD NAS
						379 18
	15051					FOLEY
	LEGEN	ID				GAINESVILLE, FL ST. AUGUSTINE ST. AUGUSTINE
0 4 13	Civil-Public	use airpor	t			GAINESVILLE, PL 116.2
- + -						GAINESVILLE RÉGIONAL
9	Restricted/F having eme					CRÓSS CITY / A A
	_		e or rain	uiiiaik	value	WYNDS 259 259 19
SANTA MONICA ATIS 119.15	Airport Nar		if a:!!-	hla)		the desired the second
175-50	Advisory Fr Elevation (f				of feet)	CROSS CITY, FL
		-, 201	J ,			1120
NAME ®	VOR					
FREQUENCY						QRIMOND BEACH MUNI O
NAME						
FREQUENCY	VORTAC (D	istance Me	easuring	Equip	ment Able)	OCALA, FL OCALA MUNI (TAYLOR) DELATION
						OCALA MUNI (TAYLOH) DELAND 201
NAME @	VOR/DME					
FREQUENCY	TOTAL					SANFORD 408
						LEESBURG TO LEESBURG
NAME	Non Direction	onal Beaco	n			335
FREQUENCY	<i>y</i>					BROOKSVILLE OPLANDO 112.2
_VOR/DME	If VOR falls d	irectly on a	n airpor	t, only t	the airport	278
NAME	symbol will b	be shown. 7	The VOR	facility	typeis	Statute Miles 5 1 1 1 1 1 GEIGER
REQUENCY	shown at the	top of the l	box.			0 10 20 30 40 50 REHNAND CO. ORLANDO INTL. II GEIGER
IRPORT NAME AB						
CO	County					North and East coordinates are canted at + 6° (clockwise) to compensate for ortho-
NTL	Field International	ı				gonal coordinate grid overlaid on Lambert con-
INUN	Municipal					formal conic projection.
(PVT)	Private Airpo	ort (prior pe	rmissio	n befor	e landing)	E 257
						1.

MCKINNON

LAUGUSTINE FE

GEIGER LAKE 375

SATELLITE 0 A

CAPE CANAVERAL 313

CANAVERAL SKID PAD

MELBOURNE 110.0



Ft Lauderdale,	105		19650E	ec		
	RWY RWY	8-26 13-3	1	6001 3999	X	100 100

Ft	Myers,	Page	Fld
	1130134	, age	110

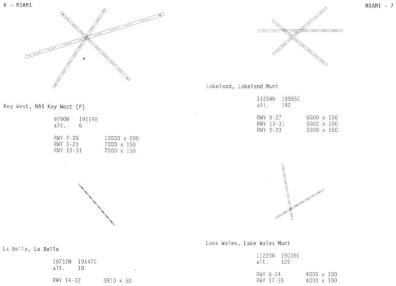
10651N alt.	18984E 18			
RWY 5-2	3	6401	X	1
DUV 12	21	1007		1

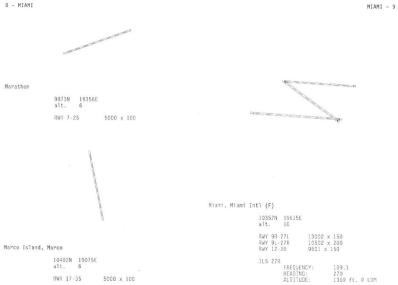
2 - MIAMI - 3



Ft Pierce, St Lucie Co Intl	Ft	Pierce,	St	Lucie	Co	Intl
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t Myers, SW Florida Regional	11083N 19528E alt. 24
10634N 19027E alt. 31	RWY 9-27 5000 x 200 RWY 4-22 5000 x 200 RWY 14-32 5000 x 100
DUV 6 24 9400 v 150	RWY 18-36 5000 x 200





MIAMI - 11 10 - MIAMI Miami, Opa Locka West (F) Naples, Naples Muni 10419N 19561E alt. 8 10468N 19028E alt. 9 RWY 9-27 3000 x 150 RWY 18-36 3000 x 150 RWY 4-22 5000 x 150 RWY 13-31 5000 x 100





(----Miami, Tamiami 10288N 19569E

alt.

RWY 9L-27R RWY 9R-27L

RWY 13-31

4001 x 150

Okeechobee, Okeechobee Co 10970N 19354E

alt. 34

RWY 4-22

RWY 13-31

4000 x 100

12 - MIAMI MIAMI - 13



Pahokee, Palm Beach Co Glades

RWY 17-35 RWY 7-25

10770N 19429E alt. 17

4620 x 75 1617 x 100



Punta Gorda, Charlotte Co 10791N 18922E alt. 25

RWY 3-21

RWY 9-27

RWY 15-33

5000 x 150

Pompano Beach, Pompano Beach Airpark 10558N 19674E 20 alt.

RWY 14-32

RWY 5-23

RWY 10-28

4420 x 150

4000 x 150

14 - MIAMI MIAMI - 15 Sarasota, Sarasota-Bradenton 10983N 18696E 28 RWY 14-32 7003 x 150 RWY 4-22 5004 x 150



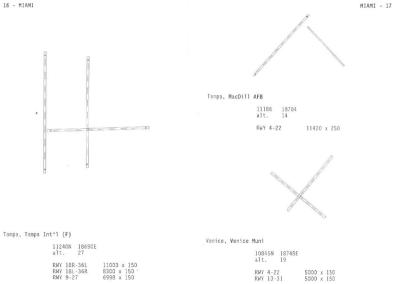
RWY 17R-35L

4000 x 75

RWY 18-36

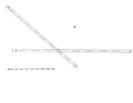
RWY 14-32

5190 x 300



18 - MIAMI MIAMI - 19





West Palm Beach, Palm Beach Intl (F) 10746N 19662E alt. RWY 9L-27R 7989 x 150 RWY 13-31 6930 x 150 RWY 9R-27L 3152 x 75 ATIS: 123.75

11154N 19505E alt. RWY 11R-29L 7180 x 100 RWY 4-22 4975 x 100 ' RWY 11L-29R 2637 x 50

Vero Beach, Vero Beach Muni (F)

ILS 9L FREQUENCY: 109.3 HEADING: 96 ALTITUDE: 1906 ft @LOM Winter Haven, Bartow Muni



RWY 6-24

11000 x 150

RWY 10-28

22 - MIAMI - 23



(1)

10783N 20830E alt. 10

RWY 9-27

5000 x 150

Marsh Harbour

RWY 6-24 7200 x 150

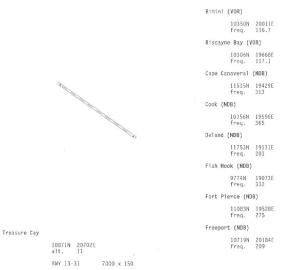
South Bimini 10350N 20020E alt. 10

RWY 9-27

RWY 13-31 RWY 9-27 RWY 4-22

11000 x 150 8000 x 150 2700 x 100

24 - HIAMI - 25



26 - MIAMI	MIAMI - 27
Freeport (VOR)	Kissimmee (NDB)
10735N 20210E freq. 113.2	11415N 19099E freq. 329
Ft Lauderdale (VOR)	La Belle (VOR)
10477N 19662E freq. 111.4	10769N 19159E freq. 110.4
Ft Myers (VOR)	Lakeland (VOR)
10653N 18982E freq. 117.6	11251N 18885E freq. 116
Ft Pierce (NDB)	Leesburg (NDB)
11084N 19529E freq. 275	11631N 18934E freq. 335
Ft. Lauderdale (VOR)	Marathon (NDB)
10478N 19663E freq. 111.4	9863N 19340E freq. 260
Ft. Myers (VOR)	Marsh Harbour (NDB)
10652N 18983E freq. 117.6	10783N 20831E freq. 361
Geiger Lake (NDB)	Melbourne (VOR)
11562N 19315E freq. 375	11346N 19407E freq. 110
Key West (VOR)	Miami (NDB)
9791N 19067E freq. 113.5	10345N 19682E freq. 322

28 - MIAMI	MIAMI - 29
Miami (VOR)	Punta Gorda (VOR)
10422N 19547E freq. 115.9	10791N 18924E freq. 110.2
Nassau (VOR)	Rubin (NDB)
10133N 20759E freq. 112.7	10743N 19619E freq. 356
OCALA ,FL (VOR)	Sanford (NDB)
11770N 18767E freq. 113.7	11629N 19156E freq. 408
Orlando (VOR)	Sarasota (VOR)
11527N 19127E freq. 112.2	10985N 18695E freq. 115.2
Pahokee (VOR)	Satellite (NDB)
10772N 19430E freq. 112.4	11334N 19381E freq. 257
Palm Beach (VOR)	Sebring (NDB)
10742N 19667E freq. 115.7	11041N 19156E 30 - MIAMI freq. 382
Perrine (NDB)	St. Petersburg (VOR) Treasure Cay (VOR)

11203N 18631E freq. 116.4

10847N 20741E freq. 233

Treasure Cay (NDB)

10867N 20710E freq. 112.9

19478E

Vero Beach (VOR)

freq.

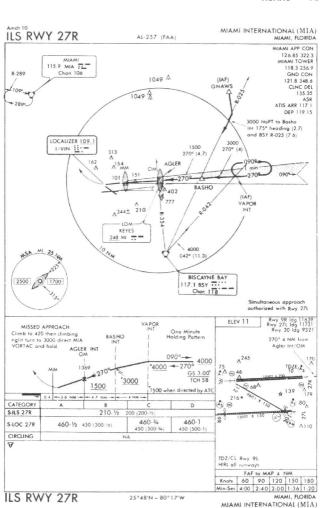
10287N 19543E

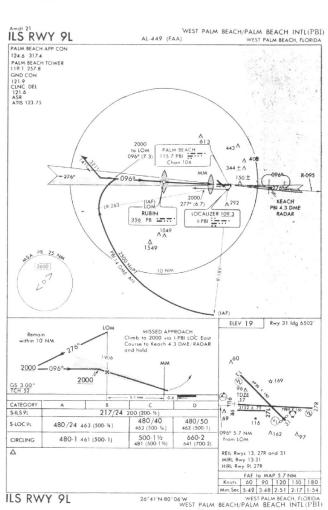
freq. 266

10503N 19636E

freq. 242

Plantation (NDB)



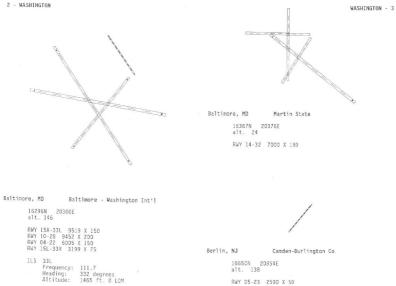


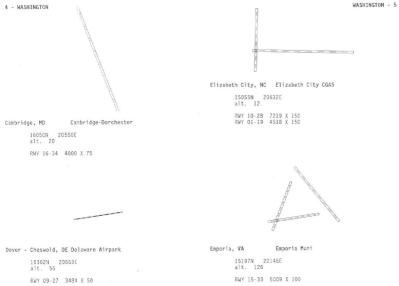
	ORT DIRECTOR				MIAMI AREA CHART
CITY	AIRPORT	NORTH EAST	ALT. F	ILS (Rwy/Freq)	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Ft Myers Ft Myers Ft Myers Ft Myers Ft Pierce Frostproof Homestead Immokalee Immokalee Key West Key West La Belle Lake Wales Marathon Marco Island Miami Miami Miami Miami Miami Miami Miami Maples Nokeechobee Pahokee Pahokee Pampano Beach Punta Gorda St. Petersburg St. Petersb	Ft Lauderdale Exec Page Fid SW Florida Regional St. Lucia Co. Int'l River Ranch Resort Homestead General mmokalee Key West Int'l NAS Key West aa Belle aakeland Muni aake Wales Muni Marathon Ma	10532 19650 10651 18984 10634 19027 11083 19528 11184 19200 10223 19528 10599 19167 9779 19085 9790 19114 10732 1947 11254 18885 11220 19039 9873 19356 10402 19075 10357 19615 10419 19561 10288 19569 10468 19028 10970 19354 10770 19429 10558 19674 10771 18922 11205 18630 10983 18696 1041 19160 11240 18690 11186 18704 10845 18748 11154 19505 10746 19662	14 18 31 24 55 9 37 4 6 18 142 125 6 6 10 9 34 17 20 25 11 28 63 27 14 19 25	109.1/27R	TAMA NIT ON CAND JAME AND
	LEGEN	D			FISH HOOK 250
27 4 O	Civil-Public	use airport			GONGO TOWN
SANTA MONICA ATIS 119.15 175-50	Airport Nan Advisory Fr			feet)	
NAME FREQUENCY [©]	VOR				
NAME FREQUENCY **	VORTAC (Di	stance Measuring	g Equipme	nt Able)	
NAME FREQUENCY 0	VOR/DME				Nautical Miles 0 10 20 30 40 50
NAME FREQUENCY	Non Direction	nal Beacon			Statute Miles 0 10 20 30 40 50 North and east coordinates are canted af
VOR/DME NAME FREQUENCY	symbol will b	rectly on an airpo e shown. The VOF top of the box.			North and east coordinates and carried at + 5° (clockwise) to compensate for ortho- gonal coordinate grid overlaid on Lambert con- formal conic projection.

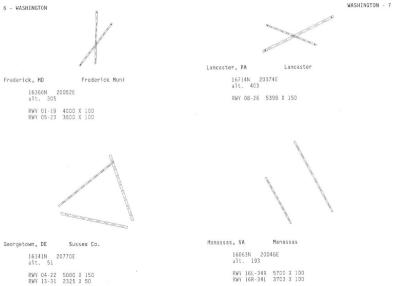


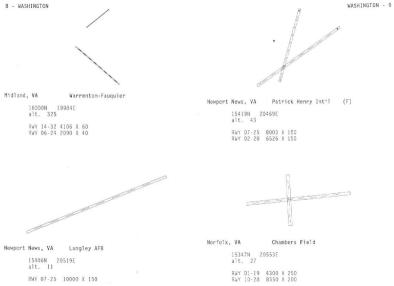
Atlantic City, NJ Atlantic City (F) 16507N 20982E alt. 76 RWY 13-31 10000 X 180

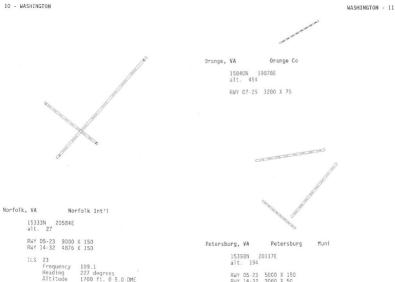
RWY 04-22 6144 X 150











RWY 14-32 3060 X 50

Altitude

12 - WASHINGTON - 13



Philadelphia, PA Philadelphia Int'l (F)

16651N 20733E a1t. 21 RWY 09L-27R 9500 X 150 RWY 09R-27L 10500 X 200 RWY 17-35 5460 X 150

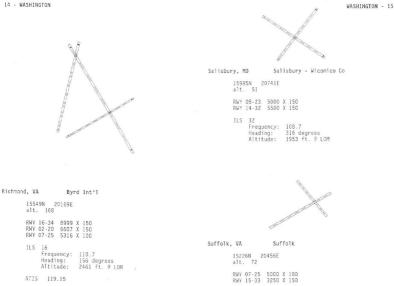
ILS 9R
Frequency: 109.3
Heading: 85 degrees
Altitude: 1856 ft. 0 LOM



Philadelphia, PA Northeast Philadelphia (F)

16751N 20801E
alt. 121

RWY 06-24 7000 X 150
RWY 15-33 5000 X 150



16 - WASHINGTON MASHINGTON - 17



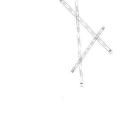
RWY 06-24 6006 X 150 RWY 16-34 4800 X 150 RWY 11-29 2999 X 150



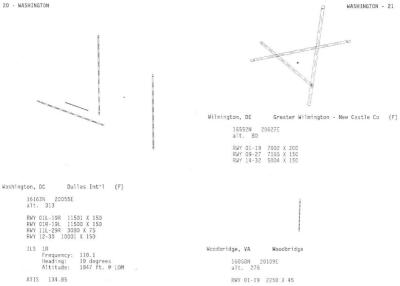
Trenton, NJ	Mercer Co.	Virginia Beach, VA Oceana NAS
16849N	20854F	15307N 20649E
alt 21		alt. 22

15307N 20649E alt. 22 RWY 05L-23R 8000 X 150 RWY 05R-23L 12000 X 200 RWY 14L-32R 8000 X 150 RWY 14R-32L 8000 X 200 18 - WASHINGTON - 19





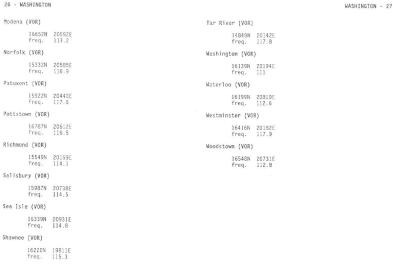
Washington, DC Andrews AFB		Washington, DC Washington Nat'l
16127N 20255E alt. 281	alt	16135N 20192E alt. 16 RWY 03-21 4905 X 150
RWY 01L-19R 9300 X 200 RWY 01R-19L 9755 X 150		RWY 15-33 5189 X 200 RWY 18-36 6869 X 150

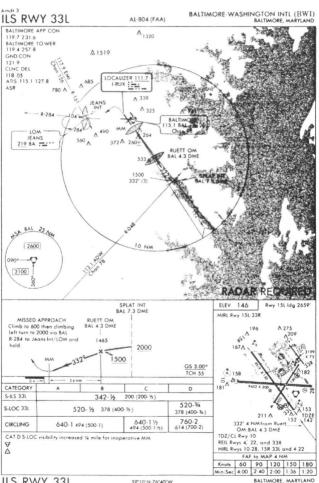


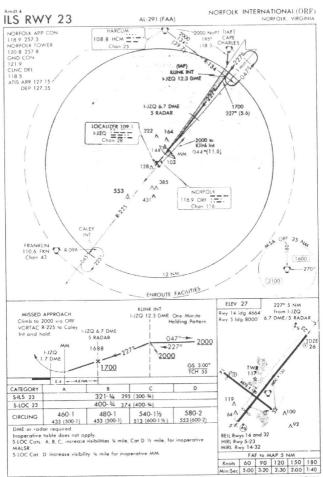
		Armel (VOR)
		16157N 20047E freq. 113.5
		Atlantic City (VOR)
	1	16506N 20983E freq. 108.6
	1	Baltimore (VOR)
	1	16292N 20302E freq. 115.1
	1	Brooke (VOR)
		15904N 20116E freq. 111.8
		Cape Charles (VOR)
		15536N 20630E freq. 112.2
		Casanova (VOR)
		16014N 19928E freq. 116.3
		Cedar Lake (VOR)
York, PA 16601N alt. 4	York 20199E 86	16522N 20848E freq. 115.2

RWY 16-34 4190 X 100

24 - WASHINGTON	WASHINGTON - 25
Cofield (VOR)	Hagerstown (VOR)
15079N 20382E freq. 114.4	16469N 19881E freq. 109.8
Coyle (VOR)	Harrisburg (VOR)
16666N 21009E freq. 113.4	16736N 20130E freq. 112.5
Dupont (VOR)	Hopewell (VOR)
16552N 20527E freq. 114	15479N 20248E freq. 112
Elizabeth City (VOR)	Kenton (VOR)
15053N 20629E freq. 112.5	15366N 20684E freq. 111.4
Flat Rock (VOR)	Lancaster (VOR)
15537N 19995E freq. 113.3	16715N 20377E Freq. 117.3
Franklin (VOR)	Lawrenceville (VOR)
15219N 20317E freq. 110.6	15228N 20003E freq. 112.9
Frederick (VOR)	Martinsburg (VOR)
16366N 20054E freq. 109	16335N 19898E freq. 112.1
Gordonsville (VOR)	Middle River (VOR)
15734N 19859E freq. 115.6	16368N 20376E freq. 115.6



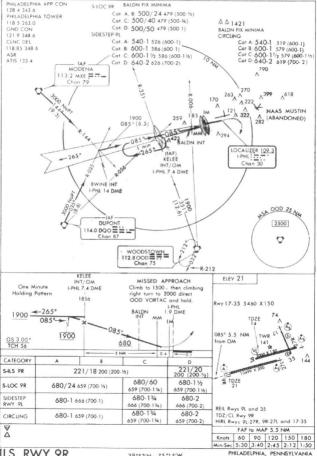


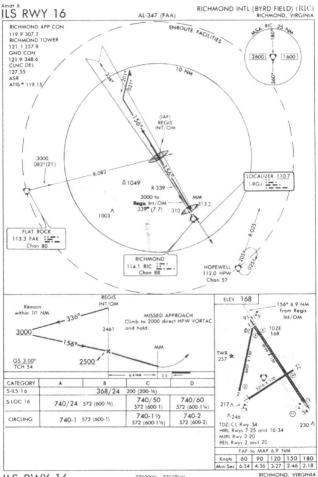


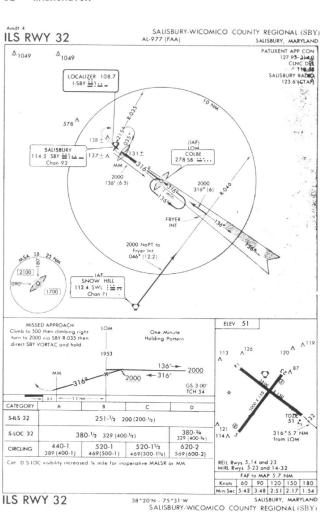
Amdr 5 RWY 9R

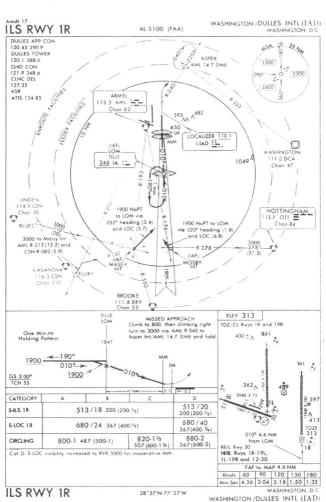
AL-320 (FAA)

PHILADELPHIA INTERNATIONAL (PHL) PHILADELPHIA PENNSYLVANIA









AIRROR	T DIRECTO	DV WAC	LINCT	CONL	ADEA	WASHINGTON AREA CHART
CITY	AIRPORT		H EAS			
	AIII 0111		II EAG		(Fuel) (Rwy/Freq)	
Atlantic City Baltimore Baltimore Berlin Cambridge Dover-Cheswold Elizabeth City Emporia Frederick Georgetown Lancaster Manassas Midland Newport News Norfolk Norfolk Orange Petersburg Philadelphia ATIS 133.40 Philadelphia Richmond ATIS 119.15 Salisbury Suffolk Trenton Virginia Beach	Atlantic City Int' Washington Int' Washington Int' Martin State Camden-Burling Cambridge-Dorr Delaware Airpar Elizabeth City Emporia Muni Sussex Co. Lancaster Manassas Warrenton-Fauq Langley AFB Patrick Henry In Chambers Field Norfolk Int'I Orange Co. Petersburg Mun Philadelphia Int'I O Northeast Philac Byrd Int'I Salisbury-Wicom Suffolk Mercer Co. Oceana NAS	1650 1629 1636 ton Co. 1665 thester 1605 thester 1605 1505 1519 1636 1614 1671 1540 till 1541 1534 1533 1584 1539 1665 telphia 1675 1554	7 2098.6 2030.7 2037.0 205.2 2066.5 2066.7 2014.6 205.2 2066.3 205.6 205.2 2066.3 205.6 205.1 2077.4 2037.3 2004.6 205.3 205.8 201.5 205.3 205.8 201.5 205.6	2 766 6 244 1388 3 566 6 22 122 305 5 1266 6 1266 6 12	(Fuel) (Revy Freq) 111.7/33L	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD ACRIAL NAVIGATION. ARRISBURG ARRICR CO. ARRICR CO. ARRICR CO. PHILADELPHIA INT. BERLIN CAMEN MERCER CO. PHILADELPHIA NOT HEAST PHILADELPHIA NOTHERAST PHILADELPHIA NOTHER
Washington Washington	Andrews AFB Washington Int'l	1612 1613				MIDLAND MIDLAND WARRENTON-FAUQUIER
Washington	Dulles Int'l	1616			* 110.1/1R	SALISBURY
ATIS 134.85 Wilmington	Greater Wilming	ton- 1655	2 20627	80		JALISOOTT 114.5
Woodbridge	New Castle Co. Woodbridge	1605	3 20109	276		BROOKE SALISBURY WICOMICO CO.
York	York	1660				PATUXENT
						1178
		LEGEND				GORDONSVILLE 18 18
27 4 O	Cir	vil-Public use air	port			
(R)		stricted/Private- ving emergency				RICHMOND 114.1
SANTA MONICA ATIS 119.15 175-50	A	rport Name dvisory Frequen evation (feet) —			eds of feet)	FLAT ROCK 113.3 RICHMOND INTL BYRD FLD HOPEWELL
NAME FREQUENCY	o V0	DR				ATIS 119.15 NEWPORT NEWS CAPE CHARLES 112.2 PATRICK HENRY NTL
NAME FREQUENCY	♥ V(ORTAC (Distance	e Measur	ing Equ	uipment Able)	PETERSBURG CONSIDER AFB LEVANGLEY AFB LEVANG
NAME FREQUENCY	o V	DR/DME				NORFOLK CHAMBERS FIELD NORFOLK NTL
NAME FREQUENCY	O No	on Directional B	eacon			LAWRENCEVILLE 112.9 SUFFOLK NORFOLK 118.9
VOR/DME NAME FREQUENCY	sy	OR falls directly mbol will be sho own at the top of	wn. The V			Nautical Miles
AIRPORT NAME ABBREVIATIONS COFIELD LIZABETH CITY Morth and each coordinates are control of						
CO FLD		unty				114.4 114.4
INTL	Int	ernational				TAR RIVER gonal coordinate grid overlaid on Lambert con-
MUNI (PVT)		unicipal vate Airport (pri	or norm:	eion ha	fore landing!	formal conic projection.
(F V I)	Pr	vate Airport (pri	or permis	SION De	iore landing)	86 1 1 V V V

Aurora 17152N 16393E alt. 705

RWY 9-27 5100 X 100 RWY 18-36 3205 X 75

17732N 16459E

Battle Creek (VOR)

Badger, WI (VOR)

17402N 17415E freq. 109.4

freq. 116.4

Battle Creek/W.K. Kellogg Reg. (BTL) (F)

17402N 17418F.

alt. 954 RWY 13-31 4835 X 100 RWY 9-27 RWY 5-23

4025 X 150



Benton Harbor, MI

10005 X 150

5110 X 100 2500 X 100

3660 X 100

17311N 17046E

alt. 643 RWY 9-27 RWY 18-36 RWY 13-31

Bloomington - Normal, IL (F) Capital (CAP) (VOR)



2 - CHICAGO

16593N 16242E freq.

16593N 16246E

alt. 876

RWY 11-29

108.2

6500 X 150

3730 X 100

Bloomington, IN (VOR)

16024N 17012F frea. 110.2

Boiler, IN (VOR)

16632N 16852E freq. 115.6

Bradford, IL (VOR)

16890N 16042E freq. 114.7

Burlington, IA (VOR) 16709N 15604E frea. 111.4

Cedar Rapids Muni (CID) (F)

alt. 863 RWY 9-27 RWY 13-31

Cedar Rapids, IA (VOR) 17208N 15330E

17209N 15355E

16337N 16020E

freq. 112.7

Cappy, WI (MK) (NDB) 17605N 16570E 410 freq.

> freq. 117.6

> > freq.

Champaign, IL (VOR) 16397N

16464E

7000 X 150

5455 X 150

CHICAGO - 3

110

4 - CHICAGO CHICAGO - 5 Champaign-Urbana/Univ. Of IL - Willard (CMI) (F) Chicago Midway (MDW) (F) 16400N 16465E 17156N 16628E alt. 754 alt. 620 RWY 4-22 5300 X 150 RWY 4-22 6100 X 150 RWY 18-36 5300 X 150 RWY 4-22 5510 X 150



13005 X 200

10005 X 150

10145 X 150

7415 X 150

8070 X 150

7400 X 150

5340 X 150







113.9 freq. Chicago/Schaumburg

17247N 16515E



alt. 794 RWY 10-28

Clow Intl (Plainfield) 17116N 16502E alt. 669 RWY 18-36

3375 X 55

114.2 Chicago Merrill C. Meigs

alt. 666

RWY 14-32

RWY 14-32

RWY 9-27

RWY 9-27

RWY 4-22

RWY 4-22

RWY 18-36

Chicago Heights, IL (VOR)

17042N 16687E.

alt. 590 RWY 18-36

frea.

17188N 16671E

3950 X 100

Connersville, IN (NDB) 16279N freq.

275

17493E



6 - CHICAGO

Danville, IL (VOR) 16511N 16695E 111

1647IN 16685E

alt. 692

freq. Davenport, IA (VOR)

17131N 15757E freq. 113.8

Dayton, OH (VOR) 16427N 17731E freq. 114.5

Deana (NDB) 17240N 16535E freq. 350

Decatur, IL (VOR) 16269N 16276E freq. 117.2

Dubuque, IA (VOR) 17421N

freq. Dupage, IL (VOR)

17202N

freq.

Dwight (NDB) 16874N 16406E 344 freq.

1084

17920N 15997E

17213N 16466E alt. 758

RWY 10-28

RWY 15-33

RWY 4-22

17422N 15684E

alt. 1076

RWY 13-31

RWY 18-36

Dubuque Muni (F)

freq.

Du Page

115.1

16433E

15684E

6500 X 150 4900 X 150













CHICAGO - 7

















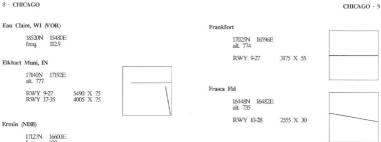
















RWY 2-20

RWY 10-28

5795 X 150

3605 X 100

RWY 5-23

RWY 14-32

RWY 9-27

9000 X 150

8505 X 150

5995 X 150

10 - CHICAGO CHICAGO - 11 Gibson City, IL Horlick, WI (VOR) 16594N 16461E 17569N 16601E alt. 758 freq. 117.7 RWY 18-36 2595 X 30 Howell (Chicago/Blue Island) 17100N 16627E alt. 600 Goshen, IN (VOR) RWY 12-30 3060 X 40 2600 X 35 RWY 18-36 17059N 17176E freq. 113.7

Grand Rapids, MI (VOR)

Indianapolis, IN (VOR) 16316N

17085E 116.3 freq. Iowa City Muni, IA 15405E

Grand Rapids/Kent Co Intl (GRR) (F) 10000 X 150 3400 X 100

17101N alt. 663 RWY 17-35 RWY 12-30

4300 X 150 3905 X 150 3995 X 150

RWY 8-26 RWY 18-36

1761IN 17330E

alt. 794

freq.

110.2

116.5

17643N 17321E

RWY 6-24

RWY 8-26 3920 X 75

Green Bay, WI (VOR)

Jackson, MI (VOR)

17398N 17669E

18354N 16485E

freq. 109.6

117 freq.

Jacksonville, IL (VOR) 16284N frea.

15816E

1086

Grissom, IN (VOR) 16677N 17146E frea.

Janesville, WI (VOR) 17483N 16195E frea. 113.4

Janesville/Rock Co. 17509N 16213E

alt. 807 RWY 13-31 RWY 4-22

RWY 18-36 Joliet, IL (VOR)

17056N 16449E freq. 112.3

Joliet 17038N 16490E

alt. 581 RWY 12-30

> 17364N 17325E

freq. 109

Kalamazoo (VOR)

5400 X 150

6700 X 150

5000 X 75

2975 X 100

Kankakee, IL (IKK) (F)

16846N 16597E alt. 626 RWY 4-22

Kalamazoo Co (AZO) (F) 17364N 17325E

alt. 872

RWY 17-35

RWY 5-23

RWY 9-27

RWY 16-34

Kedzi (NDB) 17135N 16648E freq.

























Keeler, MI (VOR)

freq.

Kirksville, MO (VOR)

freq. 114.6

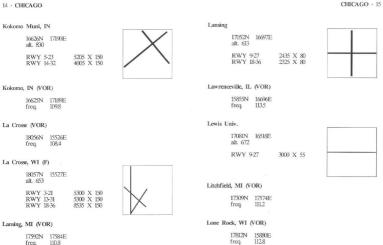
freq. 108.8

Knox, IN (VOR) 16967N 16981E

16472N 15051E 5985 X 100 3205 X 75

6500 X 150

4005 X 150 3355 X 150



Madison, WI (VOR) 1773IN 16119E freq. 108.6



RWY 7-25 3345 X 100 RWY 17-35 5005 X 100

17729N 16119E

alt. 863

RWY 5-23

RWY 14-32

RWY 18-36



4700 X 100

5845 X 150

9040 X 150



Marion, IN (VOR) 16617N 17301E freq. 1086



17319N 14974F. alt. 974

RWY 12-30



RWY 18-36 3800 X 55 Midwest, OH (VOR)

freq. Milwaukee/General Mitchell Fld 17651N 16572E

Mcguire, OH (VOR)

freq. 110

16246N 17796E

16182N 17939E 1129

alt. 679 RWY 7-25 RWY 1-19 RWY 1-19

8010 X 150 9690 X 200 4185 X 150 RWY 6-24 3165 X 100 RWY 13-31 5875 X 150



Milwaukee/Lawrence J. Timmerman 17720N 16530E

alt. 745 RWY 15-33 4110 X 75 RWY 4-22 3205 X 75



Mattoon (MTO) (VOR) freq.

16158N

16465E 109.4

Moline, IL (VOR) 16965N 15704E freq. 114.4



6510 X 150 RWY 9-27 Morris Muni

17412E

114.4

1701IN 15736E

17004N 16413E

RWY 18-36

alt. 587

6005 X 150

4915 X 150

2900 X 60

Muskegon, MI (VOR)

17760N 17156E freq. 115.2

17025N 16571E alt. 745

17194N 14919E

RWY 13-31

RWY 5-23

Newton, IA (VOR)

Nodine, MN (VOR) 18089N 15469E freq. 117.9

freq. 112.5

17760N 17093E

alt. 626

RWY 6-24

RWY 0-18

RWY 14-32

New Lenox-Howell









6500 X 150

3205 X 100

5000 X 150







Muncie (VOR) 16512N freq.

Muncie/Delaware Co-Johnson Fld (F)

16514N 17411E alt. 938

RWY 14-32 RWY 2-20





6500 X 150

4200 X 100

17341N freq.

16557E

Northbrook, IL (VOR)



Oshkosh/Wittman Field (OSH) (F) 18093N 16364E

alt. 804 RWY 9-27 RWY 13-31 RWY 18-36 RWY 4-22

freq.

Ottumwa, IA (VOR) 16855N 15153E. 111.6

6170 X 100

3210 X 100

6700 X 150

3425 X 100

Pal-Waukee 17294N 16575E alt. 646 RWY 16-34 5140 X 100

RWY 6-24 2035 X 40 RWY 6-24 3655 X 55 RWY 12-30 4450 X 55 RWY 12-30 3230 X 40

Patterson, OH (VOR)

16346N 17848F 115.2 freq.



Peotone, IL (VOR) frea.

Paxton, IL

Polo, IL (VOR)

17239N

freq. 111.2

Pontiac, IL (VOR) 16742N 16316E

freq.

RWY 18-36 3405 X 55

16576N 16507E

alt. 777

Peoria, IL (VOR)

frea.

alt. 659

16676N 15965E 115.2

Peoria/Greater Peoria (PIA) (F)

16670N 16000E

RWY 13-31 8005 X 150 6005 X 150

RWY 4-22

16937N 16618E 113.2

16066E

109,6

freq. Pullman, MI (VOR)

Port City, IA (VOR)

17141F. 112.1

16990N 15541E

1088

17465N freq.

Racine/Horlick-Racine WI

17569N 16601E alt. 672

> RWY 4-22 6555 X 100 4825 X 100 RWY 14-32

Richmond (RID) (VOR)

16306N 17605E freq. 110.6

Roberts, IL (VOR) 16500F

16637N freq. 1168

Robinson, IL (VOR)

15963N 16679E freq. 1084

RWY 2-20 Rockford, IL (VOR)

alt. 1319 RWY 13-31

Rochester, MN (F)

17342N 16164E freq. 110.8

Rockford/Greater Rockford (RFD) (F)

18084N 15143E

17328N 16199E alt. 735 RWY 6-24

RWY 12-30 RWY 0-18 Rosewood, OH (VOR)

> 16549N 17842E freq. 117.5

Sanger (Monee) alt. 784

RWY 5-23

RWY 9-27

16980N 16646E

7530 X 150

5195 X 150

5000 X 150

4100 X 100 8200 X 150

2385 X 35 2305 X 35





Sheboygan, WI (NDB)

Sheboygan Co. Mem. WI

alt. 748

RWY 13-31

RWY 3-21

18001N 16580E

254

3995 X 75

5000 X 100

112 freq. South Bend (VOR) 17157N 17089E

frea. 115.4

South Bend/Michiana Reg. (F)

17129N 17090E alt. 790

RWY 9-27 7100 X 150 RWY 6-24 3080 X 100

RWY 18-36 4250 X 100

Timmerman, WI (VOR)

17720N 16529E 112.5 Troy, IL (VOR)

> 15992N 16173E 1143

117.4

15840N 15920E frea. 116 Vandalia (VLA) (VOR)

St. Louis (STL) (VOR) 15894N 15729E

freq.

Terre Haute, IN (VOR) 16168N 16809E freq. 115.3

freq.

freq.

Veals (NDB)

16369N 16496E 407 freq.



26 - CHICAGO

Waterloo Muni (ALO) 17506N 15151E

alt. 872

RWY 6-24 5405 X 150 RWY 18-36 5405 X 150 RWY 12-30 8405 X 150

Waterloo, IA (VOR)

17506N 15152E freq. 112.2

Waukesha Co. WI

17689N 16468E alt. 932

RWY 10-28 4200 X 100 RWY 18-36 3605 X 75

Waukon, IA (VOR)

17817N 15439E freq. 116.6

White Cloud, MI (VOR)

17948N 17251E freq. 117.6

Wolf Lake, IN (VOR)

16946N 17351E freq. 110.4 **>**

5405 X 150 5405 X 150 8405 X 150

AIF	RPORT DIRECT	ORY - CHICAGO AREA CHART	CHICAGO AREA CHART
CITY	AIRPORT	NORTH EAST ALT-PUEL ILS ATIS VASI	SCENERY DISK REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Aurora Battle Creek Benton Harbor Bloomington Cedar Rapids Champaign Champaign Urbana Chicago Chicago Chicago	Aurora W.K. Kellogg Reg (BTL) Benton Harbor Bloomington-Normal Cedar Rapids Muni (CID) Frasca Fid Univ. of IL-Willard (CMI) O'Hare Intl (ORD) Merrill C. Meigs Midway (MDW)	17152 16393 705 17402 17418 954 110.5/23 127.25 31,5 17311 17046 643 16593 16246 876 17209 15355 863 16448 735 16400 16465 754 109.1/32 124.85 22,32 17244 16578 666 109.7/14 135.15 14R,32L 17156 16627 560 111.5/4R 128.05 4R,22L,4L,22R,	NODINE LA CROSSE LA CROSSE LA CROSSE LA CROSSE DELLS FOND DU LAC CO SHEBOYGAN SHE
Chicago Clow Danville Du Page Dubuque Elikhart Fond du Lac Fort Wayne Frankfort Galesburg Gibson City Grand Rapids Howell Iowa City Janesville Joliet Kalamazoo Kankakee Kokomo La Crosse Lansing Lewis Madison Manitowoc Marshalttown Milwaukee Milwaukee Moline Morris Muncle Muskegon New Lanox Openine Padon New Lanox Sanger Padon Padon Racine Padon Racine Racin	Shaumburg Clow Intl (Plainfield) Darville (DNV) Du Page Dubuque Muni Elikhart Muni Fond du Lac Co. Fort Wayne Muni (Baer Fiel Frankfort Galesburg Gibson City Kent Co. Intl (GRR) Howell (Chicago/Blue Islan Iowa City Muni Rock County Joilet Kalamazco Co (AZO) Karikakee (IKK) Kokomo Muni La Crosse Lansing Lewis Univ. Dane Co RegTraux Fid Marnhwoc Co. Marshalltown General Mitchell Fid Lawrence J. Timmerman Quad City (MLI) Musikepon Co. Howell Wittman Fid (OSH) Pai-Waukee Paxton Greater Pocria (PIA) Horick-Racine Greater Flocklord (RFD) Sanger (Monee) Sheboygan Co. Mem. Michiana Reg. Watersoo Muni (ALO)	17025 16596 774 16792 15780 764 16594 16461 758 17643 17321 794 * 108.3/8R 118.85 BL_18	WATERLOO MUNI WATERLOO MUNI DUBUGUE WATERLOO MUNI DUBUGUE DUB
		LEGEND	OTTURINA 111.6 PEORIA 115.2 ROBERTS
a o)	Civil-Public use airport	BURLINGTON 111.4 GREATER PEORIA GREATER PEORIA 111.5 KOKOMO MUNIO
®		Restricted/Private-Nonpublic use airport, having emergency use or landmark value	BLOOMINGTON-NORMAL GIBSON CITY PAXTON BLOOMINGTON, IL B
SANTA MO ATIS 119.19 175-50		Rotating light in operation, sunset to sunrise Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)	TI 108.2 TORRESPILLE TORRESPI
NAME FREQUEN	CY ®	VOR	CHAMPAIGN 1100
NAME FREQUEN	CY &	VORTAC (Distance Measuring Equipment Able)	Scenario disk This is the rest. North and east coordinates are canted at 0° (clockwise) to compensate for orthogonal coordinate for orthogonal coordinate or orthogonal coordinate grad overlaid on Lambert conformal conic projection Nr. 8, 10 + 12.
NAME FREQUEN	CY	VOR/DME	San Francisco Nr. 8, 10 + 12.
NAME FREQUEN	O	Non Directional Beacon	Hawaii Japan Statute Miles 0 10 20 30 40 50 Nautical Miles 0 10 20 30 40 50

Appleton (APE) (VOR) 16507N 18293E freq. 116.7

CINCINNATI - 1

Ashland - Boyd County, KY (128) 15812N 18298E

alt. 544

RWY 10-28 5605 X 100

Azalea Park (AZS), VA (NDB)

15726N 19747E freq. 336

Beckley (BKW) (VOR)

15529N 18874E freq. 117.7

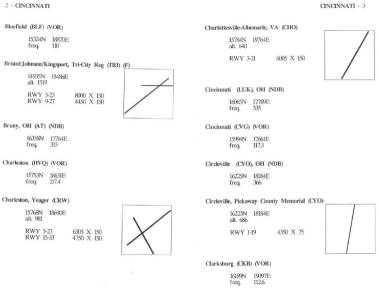
Beckley, Raleigh County Memorial (BKW)

Bellaire (AIR) (VOR) 16500N 18883F freq. 117.1

1553IN 18874E

alt. 2503

RWY 1-19 6750 X 150 RWY 10-28 5000 X 100



4 - CINCINNATI Clarksburg / Benedum, WV (CKB) (F)

16211N 19110E alt. 1204 RWY 3-21 RWY 13-31

16385N 18121E

alt. 905

RWY 4-22.

Columbus, Bolton Field (214)

5205 X 100

5000 X 150

4480 X 150

5195 X 150

2500 X 75

Columbus, Port Columbus Intl (CMH) (F) 16429N 18204E

alt. 817 RWY 10-28 10700 X 150 RWY 10-28 6005 X 150

RWY 13-31 RWY 5-23

Connersville, IN (NDB) 16279N 17507E

freq. 275

16417N

freq.

Cumberland (CBE), MD (NDB) 19586E 317





Danville (DAN) (VOR) 15075N 19540E

Cumberland, Cumberland Muni (CBE)

16401N 19581E

alt. 777

freq.

alt. 571

Dayton, OH (VOR)

RWY 2-20

RWY 6-24

RWY 13-31

RWY 5-23

RWY 10-28







5055 X 150

3505 X 150









CINCINNATI - 5















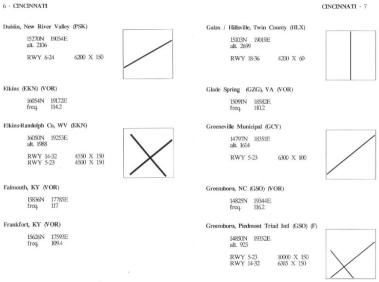












Holston Mtn (HMV) (VOR) 14922N 18579E freq. 114.6 Hot Springs, Ingalls Fld, VA (HSP) (IBM FS3 Only) 15649N 19304E alt. 3792

8 - CINCINNATI

RWY 6-24 5605 X 100 Huntington, Tri-State / Walker-Long Field (HTS) 15738N 18367E

alt. 827 RWY 12-30 6510 X 150 RWY 3-21 3005 X 60 Huntt, WV (HT) (NDB)

> 15751N 18331E 226 freq.

Indianhead (IHD) (VOR) 16533N 19367E 108.2 freq.

15589N 19118E alt. 2303 RWY 4-22

Knoxville (TYS), TN (VOR)

14662N 18001E

1164 freq.

frea.

freq. 113

freq.

Lexington (HYK), KY (VOR) 15546N 17763E

112.6

Liberty (LIB), NC (VOR)

14724N 19485F

Livingston (LVT) (VOR)

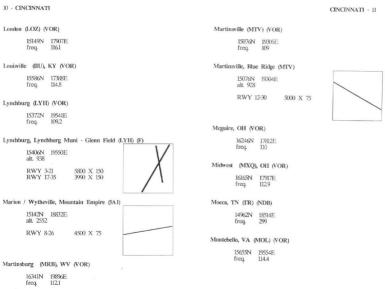
1084

14937N 17555E

Lewisburg, Greenbriar Valley (LWB)

7010 X 150

CINCINNATI - 9











RWY 18-36 3505 X 75	
9	Pulaski (PSK) (VOR)
Newcombe (ECB) (VOR)	15247N 19043E freq. 1168

Newcombe (ECB) (VOR)	15247N freq.	19043E 1168
15639N 18253E freq. 110.4	Rainelle (RNL),	,

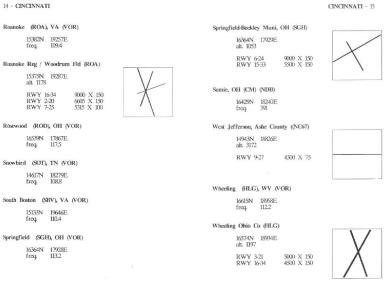
Newcombe (ECB) (VOR)	not not
15639N 18253E freq. 110.4	Rainelle (RNL), WV (VOR)
Noncompositoria (CTN) OH (100)	15625N 18973E freq. 1166

freq.	110.4	Ramelle	(RNL),	WV (VOR)
Newcomerstown	(CIW), OH (VOR)		15625N freq.	18973E 1166
16577N	18667E			20 2020

ew conner stown	(CIW), OH (VOR)	
16577N freq.	18667E 111.8	Richmond (RID), IN (VOR)
		16307N 17604E

Onida (MW) (NDB) 16241N 17785E 223 freq.

freq. 110.6





15550N 19161E

1084 freq.

Wilmington, Airborne Airpark (ILN)

16167N 17915E

15147N 18423E alt. 2680 RWY 6-24

Woodrum (ODR) (VOR) 15374N 19285E 114.9 freq.

alt. 1073 RWY 4-22

Winston Salem, Smith Reynolds (INT) 6555 X 150 3935 X 150 Wise, Lonesome Pine

9000 X 150

4705 X 100







16226N 18185E

freq. 112.5

AIRPORT	DIRECTORY - CINCINNA	ATI ARE	A		CINCINNATI AREA CHART
CITY	AIRPORT	NORTH	EAST	ALT	SCENERY DISK REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Ashland Beckley Bristol/Johnson/Kingsport Charleston Charlottesville Circleville Clarksburg Columbus Cumberland Danville Dublin Elkins Galax/Hillsville Greensboro Hot Springs Huntington Lewisburg Lynchburg Marion/Wytheville Martinsville Martinsville Martinsville Martinsville Martinsville Martinsville Morgantown Mount Airy Parkersburg Roanoke Springfield West Jefferson Wheelling Wilmington Wisse	Boyd Co., KY (I28) Raleigh County Mem. (BKW) Tri-City Reg (TRI) Yeager (CRW) Albemarle, VA (CHO) Pickaway County Mem. (CYO) Benedum, WV (CKB) Bolton Field (214) Port Columbus Intl (CMH) Cumberland Muni (CBE) Danville Regional (DAN) New River Valley (PSK) Randolph Co., WV (EKN) Twin County (HLX) Greenville Municiple (GCY) Piedmont Triad Intl (GSO) Ingalls Field, VA (HSP) Tri-State/Walker-Long Fld. (HTS) Greenbriar Valley (LWB) Lynchburg Muni/Glenn Fld. (LYH) Mountain Empire (5A1) Blue Ridge (MTV) Muni-Hart Field, WV (MGW) Surry County (MWK) Wood County/Wilson Fld. (PKB) Reg-Woodrum Fld. (ROA) Beckley Muni, OH (SGH) Ashe County (NC67) Ohio County (HLG) Airborne Airpark (ILN) Smith Reynolds (INT) Lonesome Pine	15531 14935 15768 15784 16223 16211 16385 16429 16401 15078 15270 15103 14797 15789 15649 15789 15789 15406 15149 15789 15406 15149 15976 16370 14985 16370 14943 16574 16167 16191	18486 18690 19764 18184 19101 18121 18204 19581 19581 19580 19019 18351 19352 19304 18367 19118 19550 18832 19304 18367 19118 19550 18832 19304 18307 19124 18308 19124 18705 19287 177929 18826 18934 177925 18925	544 2503 1519 981 640 686 1204 905 777 571 2106 1988 2699 1614 925 3792 827 2303 938 2552 928 1246 1214 859 1178 1053 3172 1178 1073 1197 1073 971 2680	NEWCOMERSTOWN NEWCOM
	LEGEND				WALKER-LONG FLD RAINELLE NEWCOMBE AZALEA PARK
27 4 O	Civil-Public use airport	t			INGALS FIELD INGALS FIELD GREENBRIAR VALLEY. MONTEBELLO
8	Restricted/Private-Non having emergency use				BECKLEY 1124
☆	Rotating light in opera	ition, suns	set to su	ınrise	BLUEFIELD WOODRUM PROMINE A DECLERATION MINITED
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequency (i Elevation (feet) — Len			feet)	ROANOKE RED 114.9 ROANOKE RED 111.6.8 ROANOKE RED WOODRUM FIELD LYNCHBURG MUNI-
NAME FREQUENCY ®	VOR				MOUNTAIN EMPIRE NEW RIVER VALLEY
NAME FREQUENCY ♥	VORTAC (Distance Me	asuring E	quipme	nt Able)	TWIN COUNTY MARTINSVILLE SOUTH BOSTON 110.2 TWIN COUNTY
NAME FREQUENCY	VOR/DME				ASHE COUNTY MOUNT AIRY DANVILLE REGIONAL 113.1
NAME FREQUENCY O	Non Directional Beaco	n			GREENSULLE MUNICIPLE SMITH REYNOLDS SMITH REYNOLDS GREENSBORD
VOR/DME_ NAME FREQUENCY	If VOR falls directly on a symbol will be shown. T shown at the top of the b	he VOR fa			DELANEY 263 DELANEY 263 DELANEY 263
AIRPORT NAME ABBRE					KNOXVILLE 116.4
CO FLD INTL MUNI	County Field International Municipal	-			North and east coordinates are canted at + 4" (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection Nautical Miles 0 10 20 30 40 50
(PVT)	Private Airport (prior pe	rmission b	pefore la	nding)	

ST. LOUIS - 1 Alton/St Louis St Louis Regional (ALN) 15905N 15875E alt 544 RWY 11-29 6495 X 100 RWY 17-35 5105 X 100 Anderson, Anderson Muni (AID) 16449N 17342F alt 918

RWY 12-30 5400 X 100 RWY 18-36 3400 X 75

Appleton (APE) (VOR) 16507N 18293E

freq. 116.7

Bardstown, Samules Fld (BRY)

15462N 17419E

alt. 663

RWY 2-20 4005 X 75

Bowling Green - Warren County (BWG) Bedford, Virgil I Grissom Muni (BFR)



108.2

2 - ST. LOUIS

15894N 17084E

4500 X 100

3105 X 75

alt. 728

Bloomington, IL (VOR)

16593N 16242E

RWY 13-31

RWY 6-24







RWY 3-21 RWY 12-30 Bowman, KY (VOR)

15641N 17355E

112.2

15085N 17118E

alt. 548

3955 X 150

6500 X 150



ST. LOUIS - 3

freq. Bruny, OH (AT) (NDB) 16353N 17765E

freq. 315 Burlington, IA (VOR)

freq.

16709N 15604E 111.4

Cahokia-St Louis St Louis Downtown - Parks (CPS)







Bowling Green (BWG) (VOR)

17110F

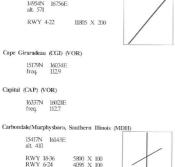
15070N frea.

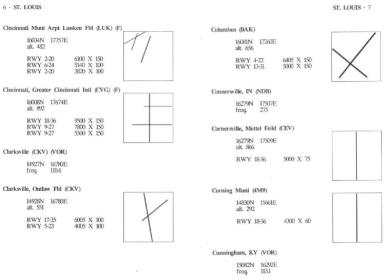
Champaign, IL (VOR)

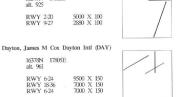
16397N 16464E freq. 110

Cincinnati (CVG) (VOR)

15994N 17661E freq. 117.3







6495 X 150

5300 X 150

5300 X 150

Dayton, OH (VOR)

Decatur (DEC)

freg. 1145

alt. 679

RWY 6-24

RWY 12-30

RWY 18-36

16427N 17731E

16310N 16267E



RWY 4-22

RWY 16-34

Dyersburg Muni (DYR) 14654N 16089E alt. 338

RWY 1-19

5000 X 100

4005 X 75

4500 X 75 3400 X 60

Elizabethtown (EKX)

15404N 17276E alt. 774 RWY 5-23 5000 X 75

Fort Wayne, IN (VOR) Evansville Dress Regional (EVV) 16834N 17455E 15546N 16727E alt. 417 freq. 117.8 RWY 4-22 8025 X 150 5080 X 150 Frankfort, Capital City (FFT) RWY 18-36 RWY 9-27 3505 X 100 15632N 17612E alt. 804 Falmouth, KY (VOR) RWY 6-24 5005 X 100 15836N 17785E frea 117

Farmington Regional (FAM) 15410N 15744E alt. 945 RWY 2-20 3975 X 60



alt. 754 RWY 15-33 RWY 18-36

Frankfort, KY (VOR) 15632N 17610E

> freq. 109.4

Ft Knox, Godman AAF 1549IN 17259E

> 5000 X 150 5205 X 150

ST. LOUIS - 11

Galesburg, IL (VOR)

109.8

16791N 15760E freq.

110.8

15378N 15807E

Farmington, MO (VOR)

freq. 115.7

freq.

freq.

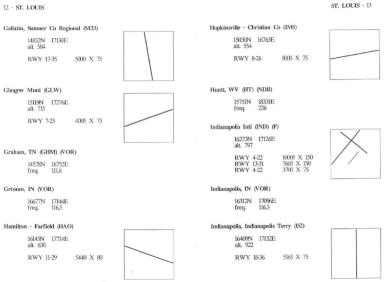
Foristell, MO (FTZ) (VOR) 15819N

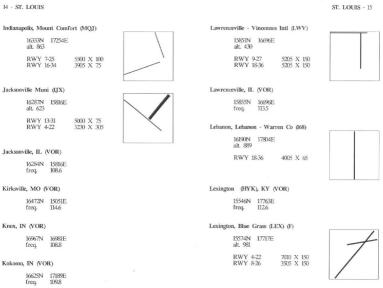
10 - ST. LOUIS

Fort Knox, KY (VOR) 15491N

17258E 109.6

15563E





freq. Livingston (LVT) 14862N 17506E. alt. 1371

14941N 17555E

RWY 3-21

London (LOZ) (VOR)

4005 X 75

6005 X 150

108.4

15149N 17907E 116.1 freq.

London - Corbin Arpt - Magee Fld (LOZ)

15173N 17919E alt. 1214

RWY 5-23

Louisville, Bowman Fld (LOU)

15640N 17355E alt. 548

RWY 6-24 4310 X 80 RWY 1-19 3380 X 100 RWY 14-32 3535 X 80

Malden Muni (MAW) 14915N 15888E

15586N 17388E

alt. 495

Madisonville Muni (210)

alt. 440

RWY 5-23

RWY 1-19

RWY 11-29

15243N 16776E.

Louisville, Standiford Fld (SDF) (F)

15618N 17331E.

freq. 114.8

alt. 259 RWY 4-22

5000 X 100 5000 X 80 5000 X 100

10000 X 150

7250 X 150

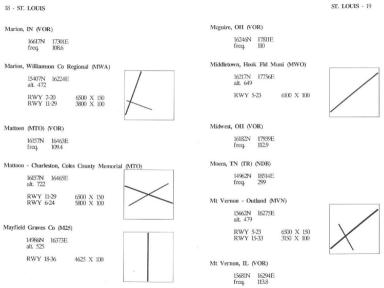
5000 X 75

RWY 13-31 RWY 18-36 Marion (MWA) (VOR)

freq.

15408N 16222E

110.4



Nashville, Nashville Metropolitan (BNA) (F) Muncie, IN (VOR) 14718N 17039E 16512N 17412E alt 600 frea. 1144 RWY 13-31 8505 X 150 7705 X 150 RWY 2-20 Mystic, KY (VOR) RWY 2-20 4305 X 150

15485N 17148E 108.2 New Hope, KY (EWO) (VOR) 15386N 17373E Nabb, IN (VOR)

110.8 freq. 15792N 17343E freq. 1124

Onida (MW) (NDB) 16216N 17734E Nashville (BNA) (VOR) freq. 223

14716N 17038E freq. 114.1 Ottumwa, IA (VOR)

Nashville, John C. Tune (JWN)

14740N 16973E alt. 492

RWY 1-19 5000 X 100 Owensboro - Daviess Co (OWB)

16855N 15153E freq. 111.6

15410N 16852E alt. 407

RWY 17-35 6500 X 150 RWY 5-23 3700 X 100

15411N 16852E

freq. 1086

ST. LOUIS - 21

Owensboro, KY (OWB) (VOR)

20 - ST. LOUIS

freq.

22 - ST. LOUIS

Paducah, Barkley Regional (PAH) 1511IN 16307E alt. 410 RWY 4-22 RWY 14-32

6500 X 150 4005 X 150

Patterson, OH (FFO) (VOR) 16345N 17863E freq.

Peoria, IL (VOR)

16676N 15965E freq. 115.2

115.2

Peotone, IL (VOR) 16937N 16618E freq. 113.2

Perryville (K02)

15455N 15936E alt. 371 RWY 1-19

Pocket City, IN (PXV) (VOR) 15491N 16648E 113.3 freq.

5500 X 100

16742N 16316E frea.

Pontiac, IL (VOR)

109.6 Poplar Bluff, Earl Fields Mem (POF) ST. LOUIS - 23

14990N 15774E alt. 331

RWY 18-36

freq.

Richmond (RID) (VOR)

4005 X 100

5205 X 150

5015 X 150

3615 X 150

16307N 17605E 110.6

Richmond Muni (RID) 16309N 17604E

alt. 1141 RWY 6-24

RWY 15-33 RWY 10-28

Roberts, IL (VOR)

16500E

16637N

freq. 1168

Robinson Muni (RSV) Seymour, Freeman Muni (SER)

5100 X 75 RWY 17-35 3400 X 75 Robinson, IL (VOR)

alt. 584 RWY 4-22 RWY 13-31 RWY 18-36

> frea. 112

15937N 17259E

Shelbyville, IN (VOR) 16240N 17280E

5500 X 150

5500 X 150

1000 X 150



ST. LOUIS - 25

freq. 108.4 Rosewood, OH (VOR)

freq.

freq.

alt. 453

Scott AFB

24 - ST. LOUIS

16549N. 17842E

15963N 16680E alt 462

15963N 16679E

RWY 9-27

Samsville, IL (VOR) 15732N 16529E

116.6

15755N 15940E RWY 14-32

7040 X 150

Sikeston Memorial Muni (SIK)

15038N 16037E alt. 315

RWY 2-20 5500 X 100

Smyrna (MOY)



14673N 17096E alt. 544 RWY 14-32 RWY 1-19

8035 X 150 5545 X 150

ST. LOUIS - 27 26 - ST. LOUIS

Springfield, Capital (SPI)

16314N 16002F alt. 597 RWY 4-22

RWY 12-30 RWY 18-36 5300 X 150



Springfield, OH (VOR)

16358N 17916E. freq. 113.2

Springfield-Beckley Muni, OH (SGH)

16364N 17929E alt. 1073

RWY 7-25 5000 X 75 RWY 4-22 9000 X 150



St Louis, Lambert - St Louis Intl (STL) (F)

15844N 15773E alt. 604 RWY 12-30 11020 X 200 RWY 12-30 9000 X 150 RWY 6-24 7605 X 150 RWY 17-35 3015 X 75



15811N

St Louis, Spirit of St Louis (SUS) 15674E alt. 462

RWY 8-26 RWY 8-26

7000 X 150 3800 X 75

St. Louis (STL) (VOR)

15894N freq. Sumie, OH (CM) (NDB)

16432N 18243E

391 freq.

Terre Haute, Hulman Regional (HUF)

9020 X 150

5300 X 150

15729E

117.4

16152N 16791E alt. 584

RWY 5-23 RWY 13-31



Terre Haute, IN (VOR)

frea.

16168N freq.

16809E 115.3



15920E 15840N 116



5000 X 100

Vandalia (VLA) (VOR) freq.

15992N 16173E 114.3

Walnut Ridge (ARG) (VOR) 14706N 15554E

114.5 freq.

Walnut Ridge Regional (ARG)

147IIN 15563E alt. 276 RWY 4-22 5000 X 150 RWY 13-31 5000 X 150



RWY 17-35 Waverly, Humphreys Co (0M5)

14708N 16671E alt. 745 RWY 3-21

5000 X 150

4005 X 75

Wolf Lake, IN (VOR) 16946N 17351E 110.4 freq. Wright-Patterson AFB

16348N 17867E

alt. 823 RWY 5-23 RWY 5-23

12605 X 305 4750 X 150













AIRPORT DIRECTORY - ST LOUIS AREA CHART ST LOUIS AREA CHART			
CITY AIRPORT	NORTH EAST ALT PUBLILS ATIS VASI	SCENERY DISK REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.	
Alton/St Louis Anderson Anderson Muni (AID) Bardstown Bedford Belleville Bloomington Bowling Greene Carbondale/ Murphysboro Centralia Cincinnati Correlati Cincinnati Correlati Cincinnati Correlati Cincinnati Cincinnati Correlati Cincinnati Correlati Cincinnati Correlati Cincinnati Correlati Cincinnati Correlati Cincinnati Correlati Cincinnati Correla	15905 15875 544 16449 17342 918 15462 17419 663 10) 15894 17084 728 16022 17021 846 15055 151940 453 16022 17021 846 15056 17118 548 16028 17118 548 16 (CPS) 15771 15833 413 10) 15179 16053 341 14954 16756 571 15417 16143 410 15738 16195 535 16034 17757 482 * 110.9/20L 2R,20L,20R,6,24 G) 16008 17674 892 * 111.9/9R 135.3 27R,27L,18 14828 16780 551 16027 17599 866 1 (MGY) 16247 17812 925 DAY) 16378 17805 961 16310 16267 679 16310 16267 679 16310 16267 679 16310 16267 679 16310 15240 17275 746 (EVV) 1546 16727 417 0) 15410 15744 945 15632 17612 804 15891 17259 754 0) 18510 15744 945 16803 17130 584 16191 17259 754 16313 17254 883 1627 15118 17276 715 16340 17132 922 16333 17254 883 1627 15118 17276 715 16340 17135 952 16353 17254 883 1627 15118 17276 715 163640 17355 548 15618 17331 485 110.3/1 118.15 19	JACKSONVILLE MUNI JACKSONVILLE JACKSONVI	
Mattoon- Coles Co Mem. (MTO) Charleston Mayfield Mayfield Graves Co. (M25) Middletown Mt Vernon Nashville Nashville Nashville Nashville Nashville Poplar Bluff Richmond Robinson Robins	18217 17756 849 15862 18275 479 14740 18973 492 4) 14716 17039 800 * 109,9/2L 120,0 13,20R,2R,20L 15410 18852 407 15111 18307 410 15455 15338 371 14990 15774 331 16309 17804 1141 15863 16860 482 15937 17259 584 15038 16037 315 14673 17096 544 16314 16002 597 16384 15773 604 * 111,2/30R 12L,30R 15811 15874 482 16152 16791 584	PERRYVILLE MARION, IL 110.4 MARION, IL 110.4 PERRYVILLE MARION, IL 110.4 PERRYVILLE MARION, IL 110.4 MARION, IL 110.5 MARION, IL 110.6 MARION, IL 110	
	LEGEND	CORNING MUNI MALDEN MUNI CORNING MUNI MALDEN MUNI 188	
87 4 o	Civil-Public use airport	EVERETT-STEWART SUMMER CO REG	
8	Restricted/Private-Nonpublic use airport, having emergency use or landmark value	WALNUT RIDGE REG JOHN C. TUNE MASHVILLE METROPOLITAN North and east coordinates are canted at 0° (clockwise) to compensate for ortho-	
SANTA MONICA ATIS 119.15 175-50	Rotating light in operation, sunset to sunrise Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)	WALNUT RIDGE 114.5 WASHVILLE 114.1 DYERSBURG 116.8 DYERSBURG 116.8 WASHVILLE SMYRNA Ormal concidinate grid overlaid on Lambert conformal conic projection	
NAME FREQUENCY ®	VOR	Nautical Miles 0 10 20 30 40 50	

DETROIT - 1

	16968N freq.	18742E 114.4			
Akron,	ОН	Akron	Fulton	Intl	
	16931N alt. 1069	18661E			1
	RWY 7- RWY 1-		6356 2335	X 150 X 98	

alt. 1227 RWY 1-19 6395 X 150

Alren (VOR)

RWY 14-32 5602 X 150 RWY 5-23 5602 X 150

Alma, MI Gratiot 17845N 17560E

Akron, OH Akron-Canton Regional 16880N 18672E

alt. 754

RWY 9-27 4998 X 72 RWY 18-36 3201 X 72

Alpena (VOR)

18642N 17887E freq. 108.8

Beaver County Beaver Falls, PA Appleton (VOR) 18324E 16850N 19021E 16516N 116.7 alt. 1253 freq. RWY 10-28 4500 X 98

Ash, Ont. (VOR) 17962N 19024E freq.

2 - DETROIT

Ashtabula, PA

Au Sable (VOR)

Bad Axe, MI

17274N 18879E alt. 922

RWY 8-26

18371N 17948E 116.1

18079N 18082E alt. 764 RWY 3-21

Huron Co.

3503 X 72

freq.

Ashtabula 5202 X 98

freq. Bradford (VOR)

Bellaire (VOR)

16510N 18915E

17349N 19547E

RWY 14-32

RWY 5-23

117.1

1166 freq. Bradford, PA Bradford Regional 17357N 19538E alt. 2142

6500 X 150

4500 X 98

DETROIT - 3

Brantford, ONT Brantford Carlisle, PA Carlisle 17870N 18931E 16723N 20104E alt. 813 alt. 515 RWY 10-28 4008 X 39 RWY 5-23 4998 X 98

2597 X 98 2597 X 98 2597 X 98 2597 X 98 2459 X 98

RWY 10-28 RWY 16-34 RWY 4-22

Centralia, ONT

Clarion (VOR) 19309E 17043N

17897N 18558E alt. 823

Huron Airpark

5011 X 150

4401 X 150 3201 X 150

DETROIT - 5

19478E

4 - DETROIT

RWY 11-29

RWY 11-29 RWY 17-35

RWY 17-35

RWY 5-23

Bryan, OH William Co.

alt. 731

17839N

freq.

Buffalo (VOR)

Buffalo, NY

17046N 17660E

RWY 7-25 5005 X 72

116.4

17841N 19450E alt. 725 RWY 5-23

RWY 14-32

Greater Buffalo Intl

8101 X 150 5379 X 150

Cleveland, OH

freq. 17133N 18571E

alt. 584

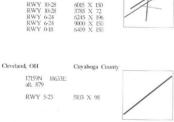
RWY 6-24

RWY 6-24

Burke Lakefront

6199 X 150 5202 X 98

Cleveland, OH Cleveland Hopkins Intl (F) Coshocton, OH Richard Downing 17078N 18518E 16609N 18558E alt. 790 alt. 977 4113 X 72 RWY 4-22



6002 X 150

4998 X 150

4480 X 150

10699 X 150

Columbus Intl

16441N 18229E. alt. 813

RWY 10-28

RWY 10-28

RWY 13-31

RWY 5-23

6 - DETROIT

Columbus, OH







DETROIT - 7



alt. 626

RWY 15-33

RWY 7-25



freq.

RWY 7-25

RWY 18-36

6002 X 98

6002 X 98

8 - DETROIT

alt. 715

RWY 5-23

RWY 15-33

7524 X 150

4001 X 98

DETROIT - 9

RWY 5-23 6688 X 157
RWY 9-27 7294 X 157
RWY 9-27 6514 X 157
RWY 9-27 6514 X 157
RWY 14-32 6914 X 157
RWY 10-28 5195 X 150
RWY 10-28 5195 X 150
RWY 10-28 5195 X 150

Du Bois PA Du Bois-Jefferson County

17079N 19487E alt. 1817 1930BE alt. 731

art. 1817

RWY 7-25 5503 X 98

17422N 19030E
alt. 731

RWY 6-24 6500 X 130
RWY 19-28 3401 X 150
RWY 2-20 3529 X 150

Dunkirk, NY Dunkirk Muni

175XIN 19200E
alt. 692

RWY 6-24 4998 X 98

10 - DETROIT DETROIT - 11 Flint (VOR) Gladwin, MI Gladwin 17708N 17867E 18133N 17610E 116.9 freq. alt. 777 RWY 9-27 4696 X 72 Flint, MI Bishop 17707N 17864E alt. 781 Goderich, ONT Goderich RWY 18-36 7845 X 150 RWY 9-27 7196 X 150 18101N 18479E 4290 X 150 RWY 5-23 alt. 702 RWY 10-28 5162 X 72 Franklin, PA Chess-Lamberton 17129N 19165E alt. 1528 Hamilton, ONT Hamilton Civic RWY 2-20 5202 X 150 RWY 11-29 3699 X 98 17894N 19060E alt. 781 RWY 12-30 5188 X 150 RWY 12-30 8003 X 196 RWY 6-24 6002 X 150 16821N 17445E 117.8 freq. Harrisburg (VOR) Gaylord (VOR) 16754N 20152E freq. 112.5

Houghton Lake (VOR)

18311N 111.6 freq.

Ft. Wavne, IN (VOR)

18595N 17532E

freq.

109.2

Geneseo (VOR)

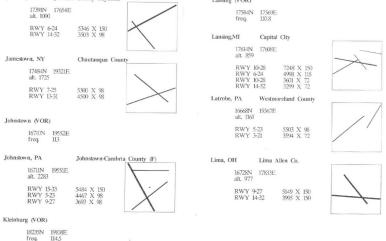
17836N

freq.

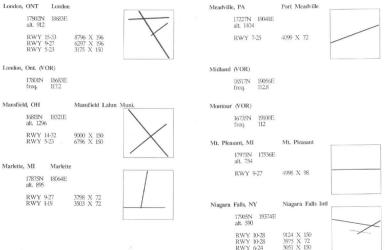
19771E 108.2

Jackson, MI Jackson County Reynolds Lansing (VOR)

12 - DETROIT



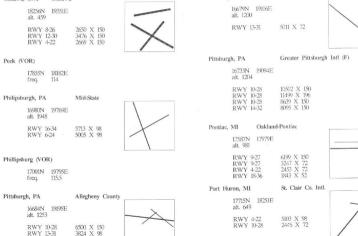
14 - DETROIT DETROIT - 15



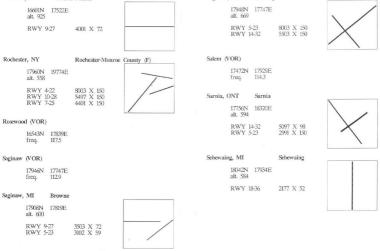
Oshawa ONT Oshawa

RWY 5-23

2532 X 98



Pittsburgh, PA Campbell

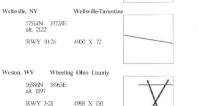


20 - DETROIT DETROIT - 21

St. Catharines, ONT St. Catharines Toronto, ONT Downsview

101/ENT 10100F

17936N 19301E alt. 321			18165N alt. 649	19183E	
RWY 6-24 RWY 1-19 RWY 11-29	4998 X 150 2499 X 72 2000 X 72		RWY RWY	15-33 6999 X 196 9-27 3161 X 150	
Tiverton (VOR)	_		Toronto, ONT	Toronto Island	
16662N 18466E freq. 116.5			18116N alt. 253	19208E	-
Toledo, OH Toledo 17109N 17882E	Express (F)	_	RWY RWY	6-24 2997 X 150	1
alt. 686			Versailles, OH	Darke County	
RWY 7-25 RWY 16-34	8698 X 150 5595 X 150		16498N alt. 1007	17679E 7	
Toronto (VOR)	L		RWY 9	9-27 3503 X 72	
18126N 19127E freq. 113.3					
T 1200			Waterloo, ONT	Waterloo-Wellingt	lon
Toronto, ONT	Buttonville	,	18012N alt. 1040	18910E	
18216N 19208E alt. 649		//	RWY 1	7-25 5202 X 150 14-32 4099 X 150	1
RWY 15-33 RWY 3-21	3752 X 98 2578 X 78	X			



4493 X 150

3220 X 98

RWY 16-34

RWY 9.27

1855IN 18647E

freq. 117.7

Wiarton (VOR)



17082N 18906E

16963N 18868E alt. 997

RWY 11-29

Youngstown Executive

4172 X 50

Youngstown (VOR)

freq. 109

Youngstown, OH

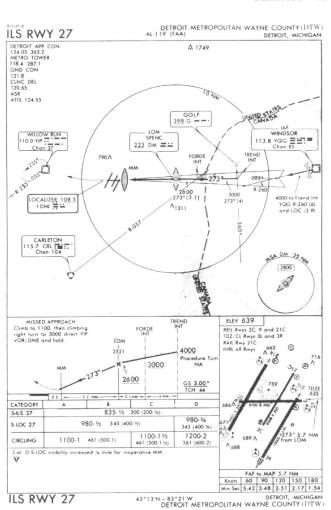
24 - DETROIT

Youngstown, OH Youngstown Muni.

17050N 18908E alt. 1197

RWY 14-32 7491 X 150 RWY 5-23 4985 X 150 3719 X 98 RWY 1-19





AIRPORT DIRECTORY - DETROIT AREA						
CITY	AIRPORT	NORTH	EAST	ALT.	F (Fuel)	ILS (Rwy/Freq)
Akron, OH	Akron Fulton Intl	16931	18661	1069		, , , , , , ,
Akron, OH	Akron-Canton Regional	16880	18672	1227		
Alma, MI	Gratiot	17845	17560	754		
Ashtabula, PA	Ashtabula	17274	18879	922		
Bad Axe, MI Beaver Falls, PA	Huron Co Beaver Co	18079 16850	18082 19021	764 1253		
Bradford, PA	Bradford Regional	17357	19538			
Brantford, Ont.	Brantford	17870	18931	813		
Bryan, OH	William Co	17046	17660	731		
Buffalo, NY	Greater Buffalo Int'l	17841	19450	725		
Carlisle, PA Centralia, Ont.	Carlisle Huron Airpark	16723	20104	515		
Cleveland, OH	Burke Lakefront	17897 17133	18558 18571	823 584		
Cleveland, OH	Cleveland Hopkins Intl	17078	18518	790	*	
Cleveland, OH	Cuyahoga Co	17159	18633	879		
Columbus, CH	Columbus Intl	16441	18229	813		
Coshocton, OH	Richard Downing	16609	18558	977		
Detroit, MI	Detroit City	17485	18115	626		07/100 5
Detroit, MI ATIS 124.55	Detroit Metro Wayne Co	17396	18013	640		27/108.5
Detroit, MI	Willow Run	17398	17954	715		
Du Bois, PA	Du Bois-Jefferson Co	17079	19487	1817		
Dunkirk, NY	Dunkirk Muni	17630	19300	692		
Elmira, NY	Corning Regional	17583	20081	954		
Erie, PA	Erie Intl	17422	19030	731		
Findlay, OH Flint, MI	Findlay	16863	17942	813		
Franklin, PA	Bishop Chess-Lamberton	17707 17129	17864 19165	781		
Gladwin, MI	Gladwin	18133	17610	777		
Goderich, Ont.	Goderich	18101	18479	702		
Hamilton, Ont.	Hamilton Civic	17894	19060	781		
Jackson, MI	Jackson Co. Reynolds	17391	17654			
Jamestown, NY	Chautauqua Co	17484	19321	1725		
Johnstown, PA Lansing, MI	Johnstown-Cambria Co Capital City	16711 17614	19551 17608	2283 859	-	
Latrobe, PA	Westmoreland Co	16668	19367	1161		
Lima, OH	Lima Allen Co	16728	17833	977		
London, Ont.	London	17802	18683	912		
Mansfield, OH	Mansfield Lahm Muni	16811	18321	1296		
Marlette, MI	Marlette	17875	18064	895		
Meadville, PA	Port Meadville	17227		1404		
Mt. Pleasant, MI Niagara Falls, NY	Mt. Pleasant Niagara Falls Int'l	17975 17905	17536 19374	754 590		
Oshawa, Ont.	Oshawa	18256	19351	459		
Philipsburgh, PA	Mid-State	16980		1948		
Pittsburgh, PA	Allegheny Co	16684	19195	1253		
Pittsburgh, PA	Campbell	16679	19106	1200		
Pittsburgh, PA	Greater Pittsburg Intl	16733	19094	1204	*	28/108.9
ATIS 127.25 Pontiac, MI	Oakland-Pontiac	17597	17070	001		
Port Huron, MI	St. Clair Co. Intl	17587 17715	17979 18251	981 649		
Portland, IN	Portland Muni	16601	17522	925		
Rochester, NY	Rochester-Monroe Co	17960	19774	558	*	1
Saginaw, MI	Tri City	17948	17747	669		
Sarnia, Ont.	Sarnia	17756	18320	594		
Sebewaing, MI St. Catharines, Ont.	Sebewaing St. Catharines	18042	17934	584		
Toledo, OH	Toledo Express	17936 17109	19301 17882	321 686		
Toronto, Ont.	Buttonville	18216	19208	253		
Toronto, Ont.	Downsview	18165	19183	649		
Toronto, Ont.	Toronto Island	18116	19208	253		
Versailles, OH	Darke Co	16498	17679			
Waterloo, Ont. Wellsboro, PA	Waterloo-Wellington		18910			
Wellsville, NY	Grand Canyon State Wellsville-Tarantine	17377 17514	19941 19728	1899		
Weston, WV	Wheeling Ohio Co	16586	18963			
Williamsport, PA	Wmsport-Lycoming Co	17187	20124	528		
Willoughby, OH	Lost Nation	17214	18657	626		
Youngstown, OH	Youngstown Executive	16963	18868	997		
Youngstown, OH	Youngstown Muni	17050	18908	1197		

DETROIT AREA CHART FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION. **KLEINBURG** GLADWIN TORONTO OSHAWA HURON CO ₱113.3 GODERICH BUTTONVILLE SAGINAW TORONTO ISLAND DOWNSVIEW MT. PLEASANT 112.9 TRI CITY WATERLOO-WELLINGTON GRATIOT **BROWNE** HUBON AIRPARK BUFFALO 115.0 PECK CATHARINES 116.4 114.0 BRANTFORD MARLETTE NIAGARA FALLS INTL BISHOP LONDON HAMILTON CIVIC ROCHESTER-MONROE CO FLINT SARNIA CAPITAL CITY 116.9 43 ST. CLAIR CO INT'L LONDON GREATER BUFFALO INTL OAKLAND-PONTIAC 117.2 SALEM LANSING GENESEO 110.8 114.3 DETROIT CITY 108.2 DUNKIRK MUNI CORNING REGIONAL ERIE WILLOW RUN DETROIT METRO WAYNE CO. CHAUTAUQUA CO WELLSVILLE-TARANTINE 110.8 WINDSOR JACKSON CO REYNOLDS ELMIRA 113.8 113.7 ERIE INT'L BRADFORD REGIONAL GRAND CANYON STATE **ASHTABULA** PORT MEADVILLE DRYER BRADFORD **TOLEDO EXPRESS** LOST NATION 113.6 116.6 CUYAHÔGA CO WILLIAMSPORT 0 WATERVILL BURKE LAKEFRONT LYCOMING CO WILLIAM CO CHESS-LAMBERTON 113.1 CLEVELAND HOPKINS INT'L YOUNGSTOWN MUNI YOUNGSTOWN EXECUTIVE AKRON FULTON INT'L YOUNGSTOWN **PHILIPSBURG** DU BOIS-JEFFERSON CO FINDLAY 109.0 CLARION 115.5 AKRON-CANTON REGIONAL 0 BEAVER CO MANSFIELD LAHM MUNI MID-STATE LIMA ALLEN CO AKRON 114.4 GREATER PITTSBURG INT'L PORTLAND MUNI ALLEGHENY CO JOHNSTOWN-CAMBRIA CO RICHARD DOWNING APPLETON DARKE CO 116.7 CARLISLE WESTMORELAND CO MONTOUR COLUMBUS INTL TIVERTON WHEELING OHIO CO 112.0 JOHNSTOWN 116.5 HARRISBURG -113.0 ROSEWOOD 112.5 117.5 BELLAIRE 117.1 Nautical Miles Statute Miles North and east coordinates are canted at + 5° (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection.

LAKE HURON - 1

Phelps Collins 18639N 17885E alt. 689

RWY 1-19 9000 X 150 RWY 7-25 5031 X 150 RWY 13-31 5031 X 150

Ash, Ont. (VOR) 17962N 19024E

freq. 115 Au Sable (VOR)

Alpena, MI

1837IN 17948E freq. 116.1

Coehill (VOR) 18617N 19636E

freq. 115.1

Earlton

Earlton, Ont. 19858N 18902E

alt. 797 RWY 7-25 6002 X 150

2 - LAKE HURON	LAKE HURON - 3
Flint (VOR)	Houghton Lake, MI Roscommon Co
17708N 17867E freq. 1169	1831N 17557E alt. 1151
Gaylord (VOR)	RWY 9-27 4001 X 72
18595N 17532E freq. 109.2	
Gaylord, MI Otsego Co	Killaloe (VOR)
18595N 17533E alt. 1328	19061N 19666E freq. 115.6
RWY 9-27 4998 X 98 RWY 0-18 2997 X 72	Kleinburg (VOR)
277 8 72	18235N 19108E freq. 114.5
Gladwin, MI Gladwin	London, Ont. (VOR)
18133N 17610E alt. 777	17801N 18683E freq. 117.2

Manitoulin, Ont.

Midland (VOR)

freq.

19008N 18163E alt. 636

19056E 1128

RWY 11-29

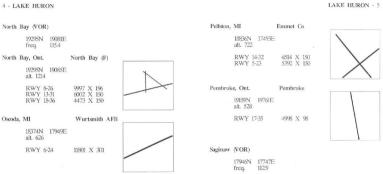
RWY 9-27

Houghton Lake (VOR)

freq.

18311N 17555E 111.6 4696 X 72

Gore Bay 4900 X 98





17855N freq. 114 Pellston (VOR) 18863N

18182E

17534E 111.8 freq.

alt. 715

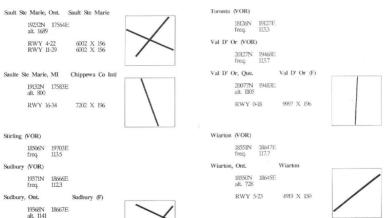
RWY 14-32 4001 X 98



6 - LAKE HURON

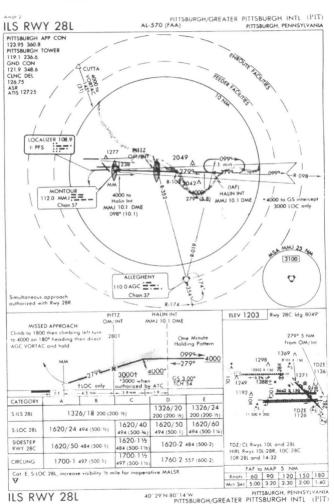
RWY 4-22 6599 X 196 RWY 12-30

4998 X 196



LAKE HURON - 7

8 - LAKE HURON



AIRPORT DIRECTORY - LAKE HURON AREA	LAKE HURON AREA CHART
CITY AIRPORT NORTH EAST ALT. F ILS (Fuel) (Rwy/Fre	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Alpena, MI Phelps Collins 18639 17885 689 Earlton, Ont. Earlton 19858 18902 797 Gaylord, MI Otsego Co 18595 17533 1328 Houghton Lake, MI Roscommon Co 18311 17557 1151 Manitoulin, Ont. Ore Bay 19008 18163 636 North Bay, Ont. North Bay 19295 19085 1214 * Oscoda, MI Wurtsmith AFB 18374 17949 626 Pellston, MI Emmet Co 18836 17493 722 Pembroke, Ont. Pembroke 19159 19761 528 Sault Ste Marie, MI Sault Saint Marie 19236 17605 715 Sault Ste Marie, MI Sault Saint Marie 19232 17564 1689 Sault Ste Marie, MI Chippewa Co Intl 19132 17583 800 Sudbury, Ont. Sudbury 19368 18667 1141 * Val D' Or, Que. Val D' Or 20077 19483 1105 * Wiarton, Ont. Wiarton 18550 18645 728	Nautical Miles 0 10 20 30 40 50 Statute Miles 0 10 20 30 40 50
North and east coordinates are canted at + 5° (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert corformal conic projection.	EARLTON
€ Civil-Public use airport	NORTH BAY
Restricted/Private-Nonpublic use airport, having emergency use or landmark value	SAULT SIE MARIE SUDBURY SUDBURY
★ Rotating light in operation, sunset to sunrise	NORTH BAY
SANTA MONICA ATIS 119.15 Advisory Frequency (if available) FIED Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet) NAME FREQUENCY VOR	PELLSTON 111.8 GORE BAY
NAME FREQUENCY ♥ VORTAC (Distance Measuring Equipment Ab	EMMET CO
NAME FREQUENCY © VOR/DME	GAYLORD 109.2 WIARTON COEHILL 115.1
NAME FREQUENCY O Non Directional Beacon	OTSEGO CO PHELPS COLLINS
VOR/DME If VOR falls directly on an airport, only the airport symbol will be shown. The VOR facility type is shown at the top of the box.	HOUGHTON LAKE AU SABLE
AIRPORT NAME ABBREVIATIONS	111.6 MIDLAND 112.8 MIDLAND 112.8
CO County FLD Field INTL International MUNI Municipal (PVT) Private Airport (prior permission before landing	ROSCOMMON 3. WURTSMITH AFB 113.5

SubLOGIC Scenery Disks are grouped by aeronautical sectional. Each SD covers a geographical region of the United States, generally comprised of three sectionals:

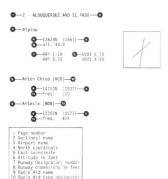


In addition to twelve regional Scenery Disks, a number of STAR Scenery Disks are also available. A STAR Scenery Disk covers a small area with a relatively dense amount of scenery. These disks are mainly intended for visual flight (sight-seeing). They include buildings and landmarks, as well as detailed renditions of the major airports in the area.

Reading a Sectional Directory

11 Radio Aid frequency

Below is a sample listing from a sectional directory with a description of the information provided. All available airports and radio-navalities for a given sectional are listed alphabetically Hadio transmitters that border a sectional are also available on neighboring sectionals, so you can cross sectional boundaries when instrument flying.



Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass reads 0. Each sectional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals. U.S. Scenery Disk areas are grouped as follows:

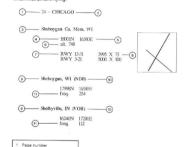


Scenery Disks for other areas of the world are also available. Japan Scenery Disk covers the area from Tekyo to Osaka in great detail. Western European Tour Scenery Disk provides detailed scenery opvering southern Great Britan. Forthern France, and southern West Germany, with a side trip to Ped Square in Moscow ISan Francisco Scenery Disk covers the Bay area in great detail, and is designed originally for local area sinhtgeign.

Scenery Disks are available in 5-1/4" and/or 3-1/2" disk format for most computer systems. Contact SubLOGIC for information on which scenery areas and disk formats are currently available for your system!

Reading a Sectional Directory

Below is a sample listing from a sectional directory with a description of the information provided. All available airports and radio-nav aids for a given sectional are listed alphabetically. Radio transmitters that border a sectional are also available on neighboring sectionals, so you can cross sectional boundaries when instrument flying.



2 Sectional name
3 Airport name
4 North coordinate
5 East coordinate
6 Albtude in feet
7 Runway Designator, number
8 Runway dimensions in feet
9 Radio Ald name
10 Radio Ald hybrid designator.

11 Radio Aid frequency

Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass reads 0. Each sectional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.

Reading a STAR SD Sectional Directory

This Star SO sectional directory lists all available airports in alphabetical order, followed by all radio-nav aids. Each airport includes a detailed diagram of the airport as it appears on the disk. Airport and radio-nav aid listings are organized as follows:

(Airport Diagram)

■—Alpine

-12628N 10661E-0 -alt. 4513 -RMY 1-19 -5999 X 72 RMY 5-23 4821 X 30

● Anton Chico (VOR) ●

14710N 10537E ●

freq. 110

2 Sectional name
3 Airport name
4 North coordinate
5 East coordinate
6 Allitude in feet
7 Runway Designator, number
8 Runway dimensions in feet
9 Radio Aid name
10 Radio Aid frequency
11 Radio Aid frequency

Page number

The vertical sides of each airport diagram align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass reads 0. Each sectional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.

Using a Scenery Disk with Flight Simulator II

Load Flight Simulator II in the usual way. When the program has finished loading, ander the simulator's program dation as desched in jour operating manual and set the NORTH and EAST coordinates of the sirport you've chosen from the directory for the region you'd like to explore (set ALTITUDE 100). Exit the editor, remove the FSII click and insert the appropriate Scenery Disk. Next, press CTRL. Eard was for a menu to appear. This menu page lists the names of the sectionals included on the Scenery Disk. Perss any key to exit, and you should find yourself at the approp you was decleted. If no socienty is vasible, go into radar mode and zoom out to determine your approximate location. You may be able to zoom all the way out and view the entire continental United States catabase, complied with rivers, highways, coastines, and the Cfreat Lakes. This default database display includes that you are not within the Coundaries of the sectionals included on your disk. Remember the program enable and duduste check-your coolcornates, making sure that both NORTH and EAST coordinates are

When you find yourself at the airport you've selected, it may be a good idea to save your position to a User Mode (see User Mode Library in the FSII Pilot's Operating Handbook). This way, I you crash, you wilbe returned to the selected airport. Otherwise you will be returned to a preset location (above Lake Michigan) in the default USA database.

Crossing a Sectional Boundary

When you if yowr a sectional boundary, one of two things will occur if the neighboring sectional is also included in a sectional will load and you will have to switch to the appropriate new map and directory provided. If the neighboring sectional is not available on your disk, a common default USA database will load. This default database allows you to zoom out (in radar mode) to you will be not a white both the common default USA database will load. This default database allows you to zoom out (in radar mode) to you with the micro reappropriate flexture of the United States.

If you have another Scenery Disk containing the appropriate sectional, you can switch disks and press CTRL E to log-in the new disk. After a brief load, the names of the new sectionals available on this disk will be displayed. Press any leve to exit and return to Flühbt Simulator II.

IMPORTANT - If you want to change Scenery Disks or go back to the scenery on the FS2 disk, you must log-in the new disk by pressing CTRLE. If you do not log-in the new disk, you will not get the new scenery and you will risk causing a disk load error.

Using a Scenery Disk with Microsoft Flight Simulator (IBM PC Versions)

Load Flight Simulator in the usual way. When you want to switch to a Scenery Disk, remove the Flight Simulator disk and insert the appropriate Scenery Disk. Press CTRL E. This will log-in the disk. A message will appear on the screen identifying the names of the sectional areas contained on the disk.

The first Scenery Disk Log-in automatically checks to seel if you have the most recent version of Flight Smulator. I you don't, the program updates Flight Smulator in memory, When this happens, your flight coordinates are set back to the Chicago area. This will only happen on the first Scenery Disk log-in of the session. After the first Log-in, your flight coordinates and conditions will carry over as you change Scenery Disks while flying.

After logging in the first Scenery Disk, you can fly or slew through all of the scenery on the disk. You can freley exchange Scenery Disks as you, fly a scenery on the disk. You can freley exchange Scenery Disks as you, fly a reaso. Perss CTFL Etolog-in the new area when you switch disks. If you fall log-in a new Scenery Disk after interning 1, it will be automatically loggled in when the disk is accessed. The log-in message will appear after every manual or automatic Journal.

Using the Microsoft Flight Simulator Disk as a Scenery Disk

The Flight Simulator disk contains all of the usual scenery for the Chicago, Seattle, Los Angeles, and New York areas. You can insert this disk and log it in as you would any other Scenery Disk to fly in these areas. This applies to Jet as well as Flight Simulator.

Special Note for IBM PC Flight Simulator Version 2.0

Very few copies of Version 2.0 exist. You most likely have Version 2.1, 2.10, 2.10, 2.10, c. a later version of Microsoft Flight Simulator. Look on the disk label near the serial number area, or look on the first menu page when loading Flight Simulator. If you have Version 2.0, insert the Sciency Disk and press ESC instead of CTRLE for the first loop in of the session. After this first loop, press CTRLE as usual to log-in new Sciency Disks. Also, never re-insert the Version 2.0 disk to use the Chicago, Seatle, Los Angeles. or New York sciencey; you must re-boot Version 2.0 to return to these areas. Version 2.0 also cannot be used as a Science Plak for Jul.

5

Tandy 1000/1200/2000 Flight Simulator

Scenery Disks are compatible with the Tandy 1000/1200/2000 version of Flight Simulator. With his version, always make sure to log-in a new Scener Disk by pressing CTRL E once the disk has been inserted. No auto-load is available on this version, and failure to log-in a new disk can cause unperdictable results when the disk is accessed after an uniponed disk change.

Special Note for Compaq 286 Users

The 1.2Mbyte floppy drives in the Compaq Deskpro 286 computer cause diskread errors when using Scenery Disks with SubLOGIC Jet or Microsoft Flight Simulator. Here is the reason why, and how to get around it:

PROBLEM - Whenever you remove a disk from the floppy drive by turning the release lever, the diskette springs out of the drive. This spring action tight so switch in the drive that informs the disk read write software that you have just switch in the drive that informs the disk read write software that you have just changed the disk. The software assumes that you are about to insent of disk, and switches to 1.28/byte read mode from whatever mode in happens to be in .J.ef. Tight Simulator, Scenery Disks fand many other manufacture programs) are on 360K disks, and a read error results when the Compaq 288 tritle to read them as 1.28/byte disks.

You can verify this for yourself using the Microsoft Flight Simulator. Boot the disk, then enter and exit the editor several times (ESC key) just to see that everything is functioning properly. Then pop the disk out of the drive, re-inserf it, and try to get back into the program editor. You will get a disk read error.

SOLUTION. You can avoid this problem by tricking the disk drive into thinking that you haven thanged disks. On this by holding the disk in place with your finger while releasing the disk-release lever. DON'T-LET THE DISK POP OUT OF THE DRIVE. Then manually remove the disk and issert a Scenery Disk (or Flight Simulator as scenery for Jef). The computer will never know that you changed the disk and everything should work fine. Remember: If you disk does just good the disk pop listed out of the drive, the switch will be activated and the drive will go into 1.2M/bdr mode thus creation errors.

Jet Users

Scenery Disks are compatible with SubLOGIC, let. Follow the instructions in your set manual for loading a Scenery Disk, Let has no automatic logicature, so always make sure you return to the Jet startup menu page before inserting a rene Scenery disk. Changing Scenery Disks in the modied or digital registration are cause unpredictable results when the disk is accessed, after a disk change.

Conclusion

As of this writing there are no fuel or repair facilities available on regular Scenery Disks (although they do occur on STAR Scenery Disks). To refuel, just land at an airport and enter the program editor. Your tanks will be filled and repairs will be made when you exit the editor.

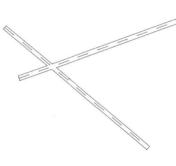
We intend to periodically update and improve our Scenery Disks to include more airports, radio ais, and scenery details as recommended by users. If you know of an airport for any other detail) that should be included on future versions of these Scenery Oxisis, please drop us a line and included the required information ON A SEPARATE SHEET OF PAPER (so we can store if in our files), Here's what we need to know.

Airports: NAME, CITY, & STATE

LATITUDE, LONGITUDE, & ALTITUDE HEADING, LENGTH, & WIDTH of each runway

Buildings, objects: NAME, CITY, & STATE
LATITUDE, LONGITUDE, & DIMENSIONS

Pictures and postcards are also velocine, especially pariel views. If you're unable to determine the latitude and longitude for the object or airport in question, please provide a description of where the object can be located on a map. All customer correspondence is read and answered (when appropriate). And please; remember to include any scenery suggestions or information on a SEPARATE page of your letter.



Alameda NAS

17402N 5102E alt. 13

RWY 7-25 7200 X RWY 13-31 8000 X





17449N 5214E alt. 23

4712 X 150 4601 X 150 2800 X 75 2768 X 75 RWY 14L-32R RWY 14R-32L

alt. 185 RWY 9-27 2480 X 33

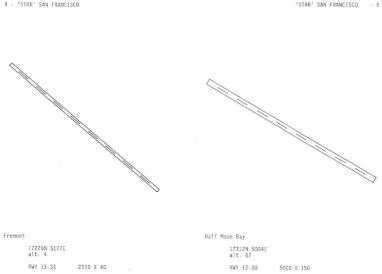
17407N 5295E

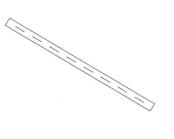
Antioch

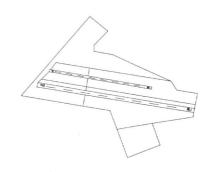
ATIS: 124.7

RWY 1L-19R

RWY 1R-19L







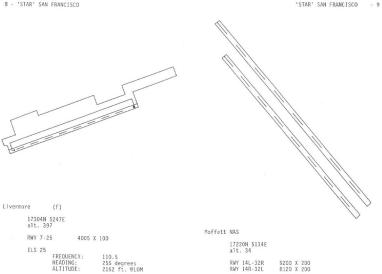
Hamilton Army 17534N 5082E alt. 3

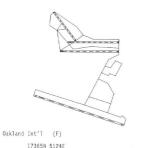
RWY 12-30

8000 X 400

Hayward Air Terminal 17329N 5145E alt. 47

RWY 10R-28L 5159 X 150 RWY 10L-28R 3536 X 75





FREQUENCY:

HEADING:

ALTITUDE:

ILS 11 FREQUENCY: 111.9 HEADING: 113 degrees ALTITUDE: 1722 ft. @LOM

108.7

293 degrees

1552 ft. @LOM

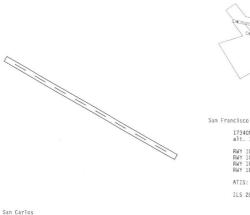
grees .. @LOM

Palo Alto

17245N 5119E alt. 5

RWY 12-30

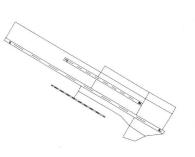
2500 X 65



17281N 5084E alt. 2 RWY 12-30

2600 X 75

San	Franciso	0	(F)			
	1734 alt.		5060E			
	RWY RWY	10R-	28R 28L 9L 9R	10600 X 9500 X	200 200	
	ATIS	:			115.8	
	ILS	28L	FREQUENC HEADING: ALTITUDE		109.5 281 degre 1735 ft.	
	ILS		FREQUENC HEADING: ALTITUDE		108.9 191 degree 2628 ft.	





alt. 56 RWY 12R-30L

17185N 5164E

8899 X 150 4419 X 150 RWY 12L-30R RWY 11-29 3000 X 40

ATIS:

ALTITUDE:

ILS 12R FREQUENCY: HEADING:

114.1

123 degrees 1798 ft. @LOM

San Jose, Reid - Hillview

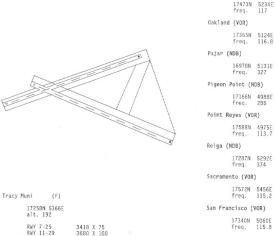
17160N 5194E alt. 133

3101 X 75

3099 X 75

RWY 13L-31R

RWY 13R-31L



Concord (VOR)

18 - 'STAR' SAN FRANCISCO San Jose (VOR) 17185N 5164E freq. 114.1 Sausalito (VOR) 17452N 5050E freq. 116.2 Scaggs Island (VOR) 17567N 5149E freq. 112.1 Travis (VOR) 17565N 5358E freg. 116.4 Woodside (VOR)

17233N 5054E freq. 113.9

CITY	AIRPORT	NORTH	EAST	ALT.	Fifue	ILS (Rwy/Freg.)
Alameda NAS	Nimitz Field	17402	5102	13		
Antioch	Antioch	17407	5295	185		
Concord	Buchanan Field	17449	5214	23	*	
Fremont	Fremont	17226	5177	4		
Half Moon Bay	Half Moon Bay	17312	5004	67		
Hayward	Hayward Air Terminal	17329	5145	47		
Livermore	Livermore Muni	17304	5247	397	*	25/110.5
Mountain View	Moffett Field NAS	17220	5134	34		
Oakland	Oakland Intl	17365	5124	7	*	11/111.9
						29/108.7
Palo Alto	Palo Alto	17245	5119	5		
San Carlos	San Carlos	17281	5084	2		
San Francisco	San Fracisco Intl	17340	5060	10	*	28L/109.5
San Jose	San Jose Intl	17185	5164	56		19L/108.9 12R/111.1
San Jose	Reid-Hillview	17160	5194	133		
San Rafael	Hamilton Army	17534	5082	3		
Tracy	Tracy Muni	17258	5366	192	*	
	North and east coordin - 20° (clockwise) to con- orthogonal coordinate of Lambert conformal con-	npensate grid overl	for aid on	t		

Lambert conformal conic projection.						
•						
	LEGEND					
er o	Civil-Public use airport					
®	Restricted/Private-Nonpublic use airport, having emergency use or landmark value					
☆	Rotating light in operation, sunset to sunrise					
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)					
NAME FREQUENCY ®	VOR					
NAME FREQUENCY ♥	VORTAC (Distance Measuring Equipment Able)					
NAME FREQUENCY ©	VOR/DME					
NAME FREQUENCY 0	Non Directional Beacon					
VOR/DME NAME FREQUENCY	If VOR falls directly on an airport, only the airport symbol will be shown. The VOR facility type is shown at the top of the box.					
AIRPORT NAME ABBRICO FLD	EVIATIONS County Field					

International

Private Airport (prior permission before landing)

Municipal

INTL

MUNI

(PVT)

SAN FRANCISCO AREA CHART FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION. SCAGOS ISLAND CONCORD HAMILTON ARM BUCHANAN FIELD ATIS 124.7 Ď ANTIOCH VORTAC_ OAKLAND 116:8 OAKLAND INTL ATIS 128:5 374 ATIS 126.0 (north field) LIVERMORE MUNI TRACY MUNI HAYWARD AIR TERMINAL HALF MOON BAY PALO ALTO FREMONT _VOR-DME_ SANJOSE MOFFETT FIELD NAS 114.1 WOODSIDE SAN JOSE INTL ATIS 114.1 REID-HILLVIEW P GEON POINT Nautical Miles 0 10 Statute Miles 0 5 10



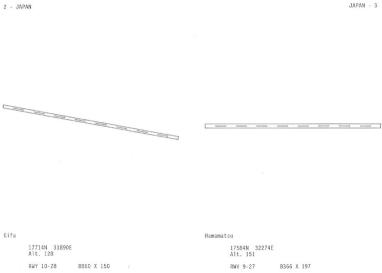
Atsugi

18118N 32707E Alt. 205

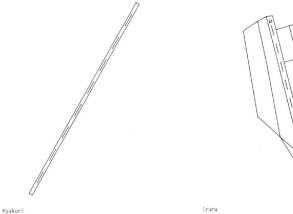
RWY 1-19 8000 X 150

ILS 1

FREQUENCY: 111.3 HEADING: 7 ALTITUDE: 1500 @ 4.1 DME



4 - JAPAN JAPAN - 5



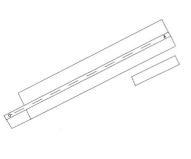
18542N 32874E Alt. 104 RWY 3-21

8860 X 150

18262N 32619E Alt. 299 RWY 17-35

6562 X 148

6 - JAPAN JAPAN - 7



Komatsu

ILS 6

18042N 31572E Alt. 18

> FREQUENCY: HEADING: ALTITUDE:

RWY 6-24 8860 X 150

110 1

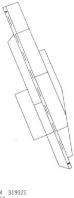
110.1 61 1084 0 3.7 DME Matsumoto

18170N 32090E Alt. 2155

RWY 18-36

4920 X 100

8 - JAPAN JAPAN - 9



		R	
17669N 31932E Alt. 52			
RWY 16-34	9000 X	150	
ILS 34 FREQUENC HEADING ALTITUDE		111.7 339 2312 @ 8	.4 DME

Nagoya



RWY 16-34 13123 X 200 ILS 16 FREQUENCY: 111.1 156 1461 @ 3.9 DME HEADING: ALTITUDE:

ILS 34 FREQUENCY: 111.9 336 HEADING: ALTITUDE: 1678 @ 4.5 DME 10 - JAPAN JAPAN





Shimofusa

18334N 32819E Alt. 98

RWY 18-36 7380 X 200 ILS 18

FREQUENCY: 109.1 HEADING: 186 ALTITUDE: 1998 @ 6.3 DME

17267N 31528E Alt. 49 RWY 14L-32R 6000 X 150 RWY 14R-32L 9840 X 200 12 - JAPAN JAPAN - 13



Tokyo Int'l (Haneda)

18201N 32787E Alt. 12 RWY 4-19 8200 X 150 RWY 15L-33R 10335 X 200 RWY 15R-33L

9840 X 150 ILS 33R FREQUENCY: HEADING: ALTITUDE:

110.9

2966 @ 10.5 DME

Yao

17220N 31616E Alt. 33 RWY 9-27 RWY 13-31

3940 X 100

14 - JAPAN JAPAN - 15



freq. 397 Akeno (NDB) 17347N 31988E freq. 380 Ami (VOR) 18451N 32839E freq. 116 Atsugi (NDB) 18119N 32711E freq. 265 Chigasaki (NDB) 18055N 32712E freq. 236 Choshi (VOR) 18427N 33082E freq. 113.6 Daigo (NDB) 18765N 32751E freq.

Daigo (VOR)

18754N 32749E freq. 115.3

Aichi (NDB)

17633N 31976E

Yokota 18217N 32618E Alt. 457 RWY 18-36 11000 X 200 ILS 35 FREQUENCY: 109.7

HEADING:

ALTITUDE:

357

2114 @ 7 DME

Eda (NDB) Hyakuri (VOR)
18172N 32716E 18546N 32873E

freq. 113.3

17276N 31516F

19002N 32866F

freq. 117.7

18289N 32578E

18048N 31571E

18043N 31569F

17467N 32025E

17455N 32042E

freq. 113.5

freq. 112

freq. 325

freq. 234

freq. 205

Iwaki (VOR)

Kawakado (NDB)

Komatsu (NDB)

Komatsu (VOR)

Kowa (NDB)

Kowa (VOR)

freq. 251

JAPAN - 17

freq. 357 fre

16 - JAPAN

Goboh (VOR)

Hamamatsu (NDB)

Hamamatsu (VOR)

Handeda (VOR)

Hotaka (NDB)

Hyakuri (NDB)

17930N 31549F

16876N 31573E

freq. 116.9

17580N 32272E

17580N 32272F

18202N 32787F

18547N 32877F

freq. 366

freq. 116.5

18216N 32062E

freq. 387

freq. 114.7

freq. 229

freq. 400

Nagova (NDB) Kumagaya (NDB)

JAPAN - 19

17666N 31933E 18372N 32530E freq. 360 freq. 240 Nagova (VOR)

Kushimoto (NDB) 17671N 31928E 16789N 31875E

18 - JAPAN

Matsumoto (VOR)

Miyakeiima (VOR)

freq. 260

19392N 32795E freq. 114

freq. 114.2 freq. 275 Nanki-Shirahama (NDB)

Narita (VOR)

Nikko (NDB)

freq. 114.8

18579N 32643F

17247N 31588F

freq. 340

Kushimoto (VOR) 16816N 31698E 16792N 31879E freq. 394 freq. 112.9

18376N 32940E 18167N 32095E freq. 117.3 freq. 117.6 Nasu (VOR) Miyakeiima (NDB) 18720N 32643F 17594N 32995E

17602N 32970E freq. 389 freq. 117.8 Oniuku (VOR)

Miyazu (VOR)

18151N 33049E

17503N 31318E freq. 115.7 freq. 112.6

Osaka (NDB) Moriva (VOR)

Osaka (VOR) Sakura (VOR)

17270N 31541E 18366N 32901E freq. 113.9 freq. 112.7 Oshima (NDB) Sekivado (VOR)

Shinoda (NDB)

Shinoda (VOR)

Shizuhama (VOR)

Tachikawa (NDB)

Tateyama (NDB)

Tateyama (VOR)

17153N 31584E

17155N 31587E

17696N 32452E

18251N 32630E

18003N 32927E

17986N 32942F

freq. 112.5

freq. 373

freq. 330

freq. 109.2

freq. 112.3

freq. 219

JAPAN - 21

17813N 32830E 18391N 32727E

freq. 216 freq. 117 Oshima (VOR)

Rankin (NDB)

17812N 32830E

17843N 32800F

17436N 31631E

17416N 31620E

freq. 117.1

freq. 368

freq. 392

freq. 113.1

Oshima Airport (NDB)

Otsu (NDB)

Otsu (VOR)

Sakura (NDB)

18338N 32890E

freq. 350

20 - JAPAN

18131N 32677E freq. 379

Tokushima (VOR) 16897N 31367E freq. 114.9

Tottori (NDB)

22 - JAPAN

17391N 30998E freq. 349 Toyama (NDB)

18250N 31774F free 354

Yao (NDB) 17217N 31618E freq. 386

Yokosuka (NDB) 18041N 32806F

freq. 270

Yokosuka (VOR)

Zama (NDB)

18060N 32787F freq. 116.2

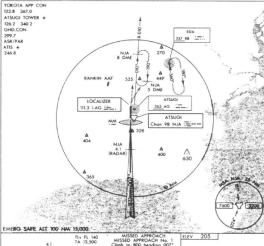
freq. 401

18156N 32659F

APPROACH CHARTS

厚木飛行場 ATSUGI (RJTA)

AYASE, HONSHU I., JAPAN



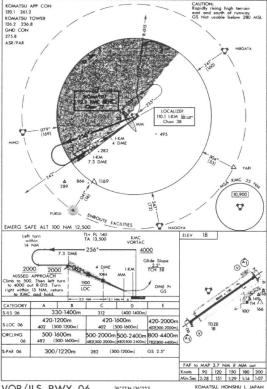
Climb to 800 heading 007*, then climb to 2000 via R-010. (RADAR) proceed to 8 DME and hold MISSED APPROACH No. 2 1500 -0075 1500 Climb to 2000 heading 007 proceed to RB NDB and hold TACAN Glide Slope 3.0° CATEGORY S-HS 01 377/730m 193 (200-800m) 377/1220m 193 (200-1200m) 660/1520m 660/1830m 660/1220m 476 (500-1200m) S-LOC 01 476(500-1600m) 476(500-2000m) 660-1600m 700-1600m 720-2400m 760-3200m CIRCLING* 455(500-1600m) 495(500-1600m) 515(600-2400m) 555(600-3200m) 405/730m 405/1220m S-PAR OI 221 (200-800m) GS 3.0° 221 (200-1200m) GS 3.0° *Circling NA E of Rwy 01/19.

300 301 283 007° to HIRL RWY 01-19 TACAN

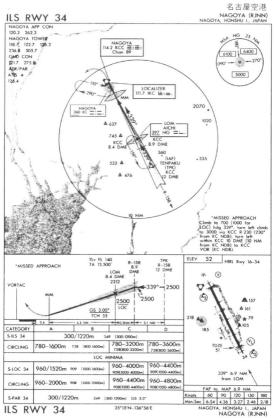
ILS

小松飛行場 KOMATSU (RJNK)

KOMATSU, HONSHU I, JAPAN

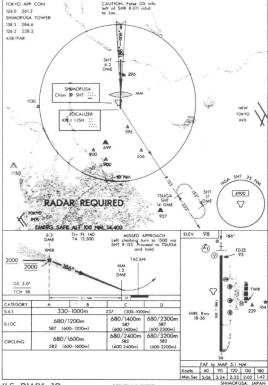


VOR/ILS RWY 06



下総飛行場

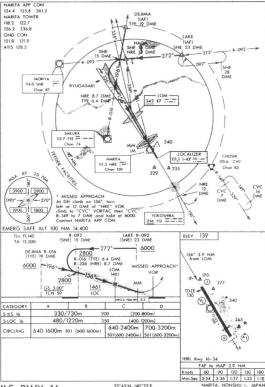
SHIMOFUSA (RJTL) SHIMOFUSA, JAPAN



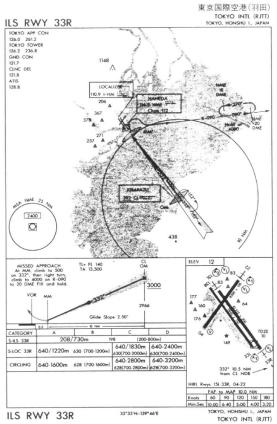
ILS RWY 18

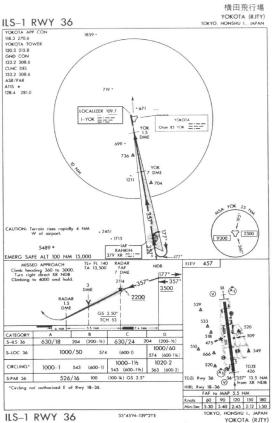
NARITA, HONSHU I., JAPAN

ILS RWY 16



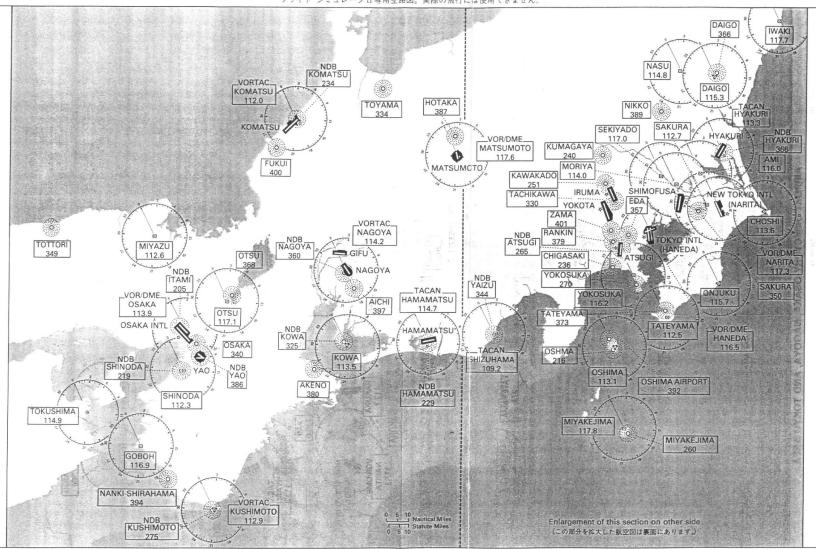
新東京国際空港(成田) NEW TOKYO INTL (RJAA) ILS RWY 34 NARITA, HONSHU I., JAPAN 60 120 180 240 NARITA APP CON V/V(fpm) 286 1144 124.4 125.8 261.2 Required by ATC until reaching 2800' NARITA TOWER 118.2 122.7 NRE 126.2 236.8 DME 10) GND CON 121.8 121.9 MORIYA ATIS 128.2 114.0 SNE CHQSHI 111.9 I-YQ :: :== 113.6 CVC △ 340 Chan 83 342 KF ... мм CVC NARITA A 235 DME 256 YQ =:== 117.3 NRE :--229 Chan 120 DME NRE 12.5 DME REACH (IAF) SNE 15 DME COURSEWAY NRE 14 DME 2500 | 1700 FEEDER FACILITIES -270 1900 1300 NRE EAROUTE FACILITIES 19 DAKE EMERG SAFE ALT 100 NM 14,400 MISSED APPROACH 139 TA 13.500 COURSEWAY At DH climb on 336° turn right at 7 DME of "NRE" VOR, at or R-156 R-155 TLv FL 140 14 DMF HIRL Rwy 16-34 12.5 DME above 2800 to "CVC" VORTAC then "CVC" R-149 to 7 DME and hold at 6000. LOM 4000 Contact NARITA APP CON. 1678 4000 LVOR GS 3.00° TCH 50 277 LOC CATEGORY . n 5-115-34 339/730m 200 (200-800m) 540/1220m (500-1200m) S-LOC-34 640-2400m 700-3200m 640-1600m 501 (600-1600m) CIRCLING 501(600-2400m) 561(600-3200m) 336" 4.6 NM from LOM FAF to MAP 4.6 NM 60 90 120 150 180 Knots 4:36 3:04 2:18 1:50 1:32 ILS RWY 34 NARITA, HONSHU I., JAPAN 35°45'N-140°23'E NEW TOKYO INTL (RJAA)





OSAKA, NAGOYA, AND TOKYO AREA CHART

フライト シミュレータ II 専用空路図。実際の飛行には使用できません。

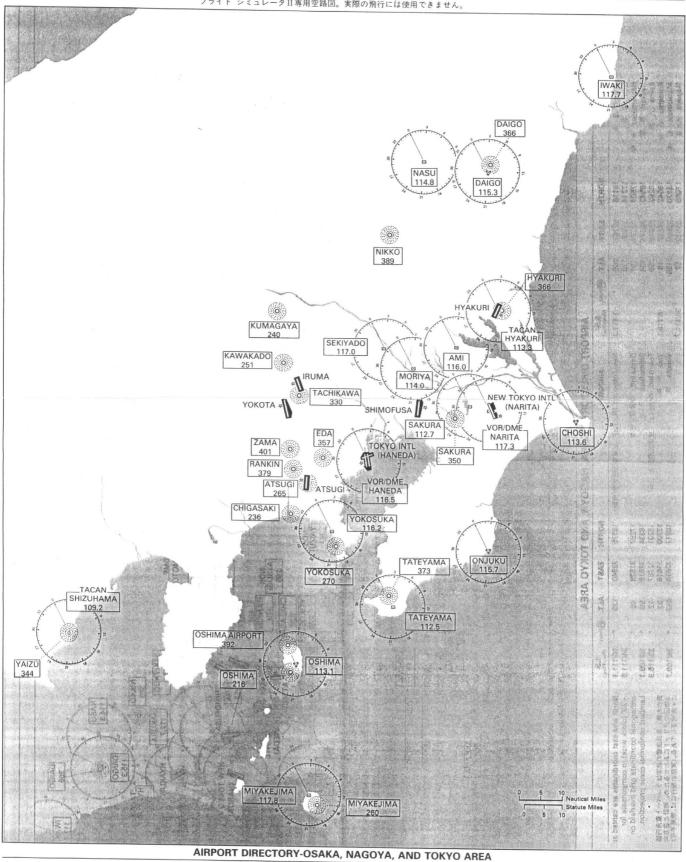


AIRPORT DIRECTORY-OSAKA, NAGOYA, AND TOKYO AREA

AIRPORT	NORTH	EAST	ALT.	F (Fuel)	ILS (Rwy/Freq.)	AIRPORT	NORTH	EAST	ALT.	(Fuel)	ILS (Rwy/Freq.)	
Atsugi 厚 木 Gifu 岐 阜	18118 17714	32707 31890	205 128	*	1/111.3	New Tokyo Intl. (Narita) 新東京国際空港(成田)	18375	32940	139	*	16/111.1 34/111.9	North and east coordinates are canted at +26° (clock wise) to compensate for
Hamamatsu 浜 松	17584	32274	151			Osaka Intl. 大阪国際空港	17267	31528	49	*		orthogonal coordinate grid overlaid on
Hyakuri 百 里	18542	32874	104			Shimofusa 下 総	18334	32819	98	*	18/109.1	Lambert conformal conic projection.
Iruma 入間	18262	32619	299	*		Tokyo Intl. (Haneda) 東京国際空港(羽田)	18201	32787	12	*	33/110.9	
Komatsu 小 松	18042	31572	18		6/110.1	Yao 八 尾	17220	31616	33			表の北緯、東経座標の数字はランバート直角円錐
Matsumoto 松本	18170	32090	2155			Yokota 横 田	18217	32618	457	*	36/109.7	法地図のグリッドにあわせるため、時計と逆方向
Nagoya 名古屋	17669	31932	52		34/111.7							に+26°修正してある。(実際の飛行には、使用不可)

ENLARGED SECTION OSAKA, NAGOYA, AND TOKYO AREA CHART

フライト シミュレータII専用空路図。実際の飛行には使用できません。



AIRPORT	NORTH	EAST	ALT.	F (Fuel)	ILS (Rwy/Freq.)	April 1
Atsugi 厚 木	18118	32707	205	*	1/111.3	North and east coordinates are canted at
Hyakuri 百 里	18542	32874	104			+ 26° (clock wise) to compensate for
Iruma 入間	18262	32619	299	*		orthogonal coordinate grid overlaid on
New Tokyo Intl. (Narita) 新東京国際空港(成田)	18375	32940	139	*	16/111.1	Lambert conformal conic projection.
Shimofusa 下 総	18334	32819	98	*	34/111.9 18/109.1	表の北緯、東経座標の数字はランバート直角円錐
Tokyo Intl. (Haneda) 東京国際空港(羽田)	18201	32787	12	*	33/110.9	法地図のグリッドにあわせるため、時計と逆方向
Yokota 横 田	18217	32618	457	*	36/109.7	に+26°修正してある。(実際の飛行には、使用不可)

Maps by Michelle Maase & Ken Ruminski

"Western European Tour" includes the airports, radio nav-aids, and scenery details for large portions of Great Britain, France, and West Germany. Several airports (and a few surprises) can also be found outside the three main detailed scenery areas, along with additional radio transmitters provided to aid in longrange navigation and cross-country flight. This Scenery Disk has enough generic cross-country scenery and highly-detailed (sight-seeing) scenery areas to keep you flying for a long time. The scenery was developed using the same documentation that pilots would use to navigate these areas. The following notes and recommendations will help you to explore these new scenery areas.

Southern Great Britain

Detailed airports include Bournemouth, Cardiff, Heathrow (London), Luton, and Nonwich

City of Interest: London

Parliament 18659N 13743E

Westminster Abbey

Tower Bridge

18661N 13759F Tower of London

18570N

Buckingham Palace

18660N 13742F Hyde Park with Sementine Pond

Post Office Tower St. Paul's Cathedral

City lights at dusk and night

Thomas River

Stonehenge Site

Chalk Figures (prehistoric and recent)

Whipsnade Lion 18817N Uffinaton White Horse 18743N Westbury White Horse 18633N

Long Man of Wilmington 18365N

Lighthouse beacons along South England coast

13245E

13657E

13369E

13209E

13788E

Note to 68000 FS2 Users: After loading the Atari ST/Amiga Flight Simulator II (or Macintosh Microsoft Flight Simulator) program, you start out on Oakland Runway 27R. When you log-in the "Western European Tour" Scenery Disk you will automatically be transported to Heathrow Airport in London. You may return to Heathrow any time after this by selecting the prerecorded situation for Oakland 27R from the SITUATION menu. Northern France

Detailed airports incude Caen, Le Touquet, Lille, and Charles de Gaulle (Paris). City of Interest: Paris Arc de Triomphe 14254F

Sacre Coeur Cathedral 17441N 14269E Montmartre Hill Eiffel Tower 17430N 14254E Tour Montpamasse 17423N

Concorde Obelisk 17433N 14261E Louvre Museum 17430N 14266F Notre Dame Cathedral 17426N 14269E lle St. Louis (island in the river) Seine River City lights at dusk and night

Bois de Boulogne (park) Bois de Vincennes (park) Jardin du Luxembourg (park) Place des Invalides (park) Champ de Mars (park) Pere Lachaise Cemetery

Southern West Germany

Detailed airports include Frankfurt and Neubiberg.

City of Interest: Munich Olympiaturm Tower

Olympic Grounds (park) Hauptbahnhof

Frauenkirche

Residenz

Deutsches Museum Isar River with jelande Theresienwiese beer garden (park)

17028N 17015N 16835F 17014N 17015N 17011N

100205 16841E 16842F

16832E

Hofgarten (park)				
City of Interest: Numberg Fernmeldeturm Tower Pegnitz River with parks		17553N	16676E	
City of Interest: Stuttgart Fernsehturm Tower Schlossgarten (park) Two adjacent mountains	-	17269N	16172E	
City of Interest: Frankfurt Fernmeldeturm Tower Palmengarten (park)		17854N	16030E	
Opera House	-	17845N	16034E	
Cathedral Skyline buildings Zoologischer Garten (park)	-	17841N	16040E	

City of Interest: Strasbourg, France Rhein River and canals Jardin Botanique (park) Orangerie (park) Three mountains (southwest of city)

Three mountains (northwest of city)

Englischer Garten (park)

Europe

Included is a map of Europe that shows the radio aids located outside of the three main detailed scenery areas. Use these radio aids to navigate between areas.

Several additional Europe scenery details are also available. Helsinki (Finland) Airport is located at:

22508N 19462E

This airport includes refueling facilities.

The city of Moscow is also accurately located inside Russia. While we could have listed the exact city coordinates, we thought it might be more interesting for you to try and locate Moscow for yourself (see following). City scenery includes the Kremlin Wall and park, "Red Square", several other parks, a river, and several small lakes.

Nurnberg to Helsinki It's just possible to fly from Nurnberg, West Germany to Helsinki, Finland with

a full load of fuel. Start out at Nurnberg Airport:

16691F

Take off and turn to a heading of 36 degrees. Level out at 5,000 feet, then cut your airspeed to 120 knots to conserve fuel. Your magnetic compass heading will tend to drift as you fly east, so be sure to keep yourself on a constant 36degree heading. Also, make sure to keep your airspeed at or below 120 knots; if you fly any faster than this, you will probably run out of fuel and splash into the Baltic Sea before reaching Finland! Keep your eyes open and start scanning the horizon for Helsinki Airport as soon

as you cross over into Finland. The airport is approximately 20 minutes inland from the coast and is the only scenery detail in the entire country, so it should be relatively easy to locate if you fly anywhere near it. With any luck you should be able to find and land at Helsinki Airport with about twenty minutes of fuel left in your tanks.

The flight from Numberg to Helsinki takes about six hours at 120 knots, gear up. flaps off, at an altitude of 5,000 feet.

Helsinki to Moscow

Your success in flying nonstop from Numberg all the way to Helsinki. Finland on a single tank of fuel has won you much notoriety, and strengthened your resolve to attempt an even greater feat; a secret, unauthorized solo flight from Helsinki to Moscow, deep in the Russian heartland.

After refueling your aircraft, you find yourself sitting on the runway and cleared for takeoff from Helsinki Airport at coordinates:

22508N 19462F

Take off and turn to a heading of 130 degrees. No radio nav-aid information is available for this flight, but you've determined that if you stay on this heading you should come near enough to Moscow for you to see and identify it visually. Your

magnetic compass will tend to fluctuate as you fly from west to east, so make sure you maintain a 130-degree heading.

The flight from Helsinki to Moscow should take about three and one half hours at 135 knots, gear up, flaps off, at an altitude of 5,000 feet

You've landed your airplane in a remote area of western Russia: 21739N 22124F

Find Moscow's Red Square (the Easy Way)

and have taken some time to relax and wander the countryside. Presently you arrive at a nearby village, where the friendly townslok inform you that you are very near Moscow and, of course, you shouldn't pass up this opportunity to see the nation's capital. The villagers assure you that the people of Moscow are very friendly and will warmly welloome someone who has made such a long flight to

visit them. They also suggest that perhaps you could land in Red Square near the Kremin.

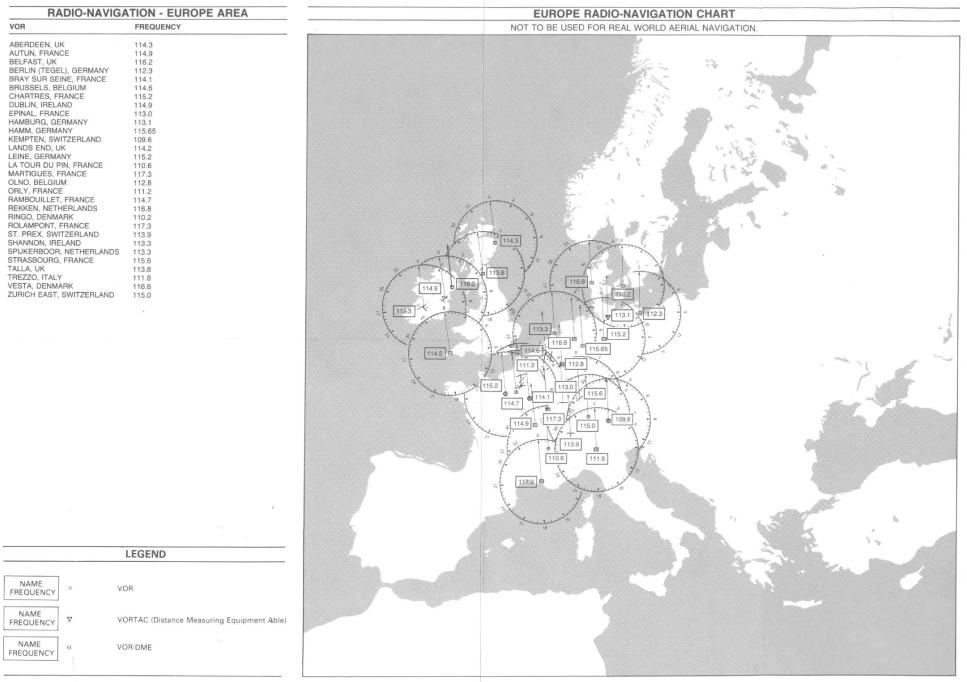
Neither you nor they have any radio nav-aid internation, but they tell you that if you take of that follows a outhout hadding you should be able to spot from on the horizon in a matter of minutes. You thank them for their hospitality and ceilinb back into you fails to be depart. The trip followscop form this location should

take about 45 minutes at 130 knots, gear up, flaps off, at an altitude of about 5,000 feet. Good luck!

Above all else, explore! A lot of work went into this project. We hope that you enjoy the results as much as we do!

Special thanks to Dave Robins and British Airways AERAD for providing

documentation used in the development of this Scenery Disk.



Abbeville (VOR) 17997N 14192E freq. 116.6

Abbeville 17998N 14192E alt. 220

Amiens

Beauvais

RWY 12-30 4132 X 85

17862N 14333E alt. 197

> 17692N 14235E alt. 358 RWY 13-31

RWY 5-23

Autun, France (VOR) 16519N 14723E freq. 114.9

RWY 3-21 5247 X 163

7970 X 170

3627 X 150

NORTHERN FRANCE - 1

2 - NORTHERN FRANCE

RWY 18-36

Berck-Sur-Mer 18127N 14142E

alt. 30 RWY 6-24

2951 X 196 1967 X 196

Bernay / St. Martin

17598N 13776E alt. 551

> RWY 10-28 3017 X 327 2787 X 327 RWY 17-35

Berry Head (VOR)

18339N 12804E freq. 112.7

freq.

Boulogne (VOR) 18203N 14240E 113.8

Bray sur Seine, France (VOR)

17205N 14519E frea. 114.1



Bretigny

17316N 14253E alt. 269 RWY 5-23

RWY 12-30 Brussels, Belgium (VOR)



NORTHERN FRANCE - 3

9839 X 327

5739 X 196

freq.

Caen (F) 17673N 13497E alt. 256

18233N 14929E

114.6

RWY 13-31 5431 X 150 RWY 6-24 3870 X 98



Caen (VOR)

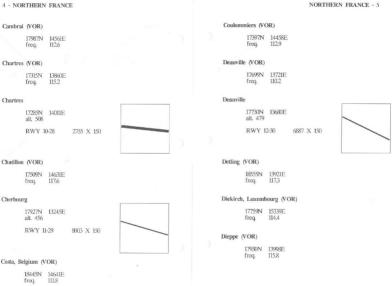
17657N 13550E freq. 115.4



18348N 14272E alt. 10

RWY 7-25





6 - NORTHERN FRANCE NORTHERN FRANCE - 7 Dieppe Lands end (VOR) 17915N 13970E 12224E 18341N alt. 344 freq. 114.2 RWY 13-31 2689 X 196 Le Havre 17804N 13672E alt. 312 Dover (VOR) RWY 5-23 6887 X 131 18474N 14110E freq. 114.95 Epinal, France (VOR) Le Mans

17125N 13607E alt. 194

RWY 3-21

4624 X 98

Le Touquet (F) 18165N 14159E alt. 36

RWY 14-32 7379 X 131 RWY 7-25 3935 X 131

Hamm, Germany (VOR)

15800E 115.65

17118N 15280E

freq. 113

freq. 112.4

18415N 13546E 114.75 freq.

Evreux (VOR) 17542N 13959E

Goodwood (VOR)

18588N freq.

8 - NORTHERN FRANCE Lille (F)

18138N 14562E alt. 157 RWY 8-26 RWY 2-20

9269 X 150 4263 X 98

London (VOR) 13657E 18665N freq. 113.6

Lydd (VOR) 18421N 13979E

freq. 114.05 Mantes (VOR)

14032E 17508N freq.

Midhurst (VOR) 18492N 13593E

freq.

Montdidier (VOR)

14344E frea. 113.6

freq. Orly (VOR) 17368N freq.

Olno, Belgium (VOR)

18085N 15245E

Montmedy, France (VOR)

17579N 15052E

Monts d'Arree, France (VOR) 17445N 12597E freq. 112.5

freq. 109.4

Nicky, Belgium (VOR)

Ockham (VOR)

18346N 14855E 117.4 freq.

> 14270E 111.2

13651E 18590N 115.3 freq.

NORTHERN FRANCE - 9

RWY 7-25 11971 X 150 RWY 2-20 7871 X 196 RWY 8-26 10889 X 150

Pontoise (VOR) 17540N 14195E freq.

> 14157E 114.7 freq.

Rambouillet (VOR)

freq.

frea.

Strasbourg (VOR) 17172N

117 Southampton (VOR) 18346N

> 115.6 freq.

13770E 113.35



12 - NO	ORTHERN FRANC	Œ	
Toussus	Le -Noble		
	17390N 14194E alt. 538		
	RWY 8-26 RWY 8-26	3607 X 98 3443 X 98	

AIRPORT DIRECTORY - NORTHERN FRANCE	ENLARGED SECTION NORTHERN FRANCE AREA CHART							
CITY AIRPORT NORTH EAST ALT. F ILS (RwyFred)	NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.							
Abbeville Abbeville 17998 14192 220 Amiens Glisy 17862 14333 197 Beauvais Tille 17692 14235 358 Berck-Sur-Mer Berck-Sur-Mer 18127 14142 30 Bernay St. Martin 17598 13776 551 Bretigny Bretigny 17316 14253 269 Caen Carpiquet 17673 13497 256 Calais Dunkerque 18348 14272 10 Chartres Champhol 17285 14011 508 Cherbourg Maupertus 17927 13245 456 Deauville St. Gatien 17730 13680 479 Dieppe St. Aubin 17915 13970 344 Le Havre Octeville 17804 13672 312 Le Mans Arnage 17125 13607 194 Le Touquet Paris-Plage 18165 14159 36 Le Touquet Paris-Plage 18165 14159 36 Le Garlen 17490 14331 387 28/109.1 Paris Charles De Gaulle 17490 14331 387 28/109.1 Paris Le Bourget 17471 14299 216 Paris Orly 17372 14266 292 Rouen Boos 17697 13970 515 Toussus-Le-Noble 10 20 30 40 50	SOUTHAMPTON SOUTHAMPTON 114.05 COSTA, BELGIUM 111.8 SEAFORD 114.75 SEAFORD 117.0 BOULOGNE 113.8 BRUSSELS, BELGIUM 114.6 DEPPE 115.8 ABBEVILLE ABBEVILLE CAMBRAI 112.6 CAMBRAI 112.6							
Statute Miles	CHERBOURG/MAUPERTUS DIEPPE/ST. AUBIN							
0 20 40 60 80 100 Kilometers	LE HAVRE/OCTEVILLE							
North and east coordinates are canted at approximately – 5° (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection.	DEAUVILLE ROUEN/BOOS BEAUVAIS/TILLE MONTDIDIER 113.6 REIMS REIMS							
LEGEND	BERNAY ST. MARTIN 112.4 PONTOISE 111.6 PARIS/CHARLES DE GAULLE							
🗗 🏚 🕦 Civil-Public use airport	PARIS/LE BOURGET							
Restricted/Private-Nonpublic use airport, having emergency use or landmark value	MANIES 112.0 CHATILLON 117.6							
SANTA MONICA Airport Name ATIS 119.15 Advisory Frequency (if available) 175-50 Elevation (feet) — Length (hundreds of feet)	TOUSSUS-LE-NOBLE ORLY 111.2 RAMBOUILLET 114.7 PARIS/ORLY 7 COULOMMIERS 112.9 7 7							
NAME FREQUENCY © VOR	CHARTRES							
NAME FREQUENCY ▼ VORTAC (Distance Measuring Equipment Able)	CHARTRES/CHAMPHOL							
NAME FREQUENCY ON VOR/DME	LE MANS/ARNAGE BRAY SUR SEINE 114.1							
NAME FREQUENCY O Non Directional Beacon	27 18							
VOR/DME If VOR falls directly on an airport, only the airport NAME symbol will be shown. The VOR facility type is shown at the top of the box.								

Allersberg (VOR) 17466N 16733E freq. 111.2

Augsburg Mulhausen 17132N 16657E

alt. 1512

RWY 7-25 4198 X 98

Baden-Baden/Oos 17289N 15893E

alt. 403

RWY 4-22 RWY 4-22

Bayreuth (VOR)

17795N 16838E

freq. 110.6

Brussels, Belgium (VOR) 18233N 14929F freq. 114.6

Berlin (Tegel), Germany (VOR)

18893N 17217E freq. 112.3

4198 X 98 3279 X 98

SOUTHERN WEST GERMANY - 1





17779N 16028E alt. 384 RWY 9-27 2051 X 85

Egelsbach

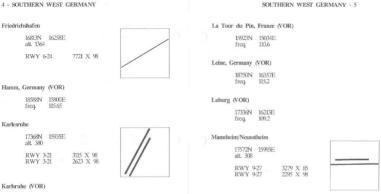
Epinal, France (VOR) 17118N 15280E.

freq.

freq.

Freistadt, Austria (VOR)

17176N 17541E





16006E

115.95

17370N freq.

Kempten (VOR)

16841N

17686N

freq.

freq.

109.6

Kitzingen (VOR)

16496E

16451E 111.4

freq.

Montmedy, France (VOR)

17579N 15052E

freq. 109.4

Munich (VOR)

16933E 112.3

6 - SOUTHERN WEST GERMANY

9197 X 196

8003 X 91

17016N 16876E

16989N 16858E alt. 1811

RWY 7-25

alt 1738 RWY 7-25

Munich

Neubiberg (F)

Nurnberg (VOR)

Nurnberg

17595N 16619E. 117.4 freq.

SOUTHERN WEST GERMANY - 7

15552E 116.8

freq. Roding (VOR)

17403N freq.

Rekken, Netherlands (VOR) 18727N

17095E

114.7

Rolampont, France (VOR)

16953N 15048E 117.3 freq.

Spijkerboor, Netherlands (VOR)

18913N 15069E

freq. 113.3

St. Prex, Switzerland (VOR)

16330N 15355E

113.9 freq.

Strasbourg (VOR)

17172N 15717F

freq. 115.6

17586N 16691E alt. 1046

RWY 10-28

8855 X 150

Olno, Belgium (VOR)

18085N 15245E 1128 frea.

8 - SOUTHERN WEST GERMANY Strasbourg 17188N 15734E alt. 502 RWY 5-23 7871 X 150 Stuttgart 17241N 16176E alt. 1299 RWY 8-26 8363 X 163 Tango (VOR) 17214N 16189E

17214N 16189E freq. 112.5 Trezzo, Italy (VOR) 15912N 16248E freq. 111.8

16248E 111.8

Tulln, Austria (VOR) 17139N 18069E

freq. 111.4

Zurich East, Switzerland (VOR)

16770N 16051E freq. 115

AIRPORT DIRECTO	DRY - SOUTHERN WEST GERMANY	ENLARGED SECTION SOUTHERN WEST GERMANY AREA CHART
CITY AIRPOR		NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Augsburg Mulhause Baden Baden-B Donaueschingen Egelsbach Egelsbac Frankfurt Main Friedrichshafen Karlesruhe Munich Munich Munich Neubiber Nurnberg Nurnberg Strasbourg Entzheim Stuttgart Mulhause	en 17132 16657 1512 aden/Oos 17289 15893 403 15890 2227 h 17779 16028 384 25L/110.7 h 1779 16028 384 25L/110.7 shafen 16813 16258 1364 17803 15997 364 25L/110.7 h 17572 15993 308 17016 16876 1738 16989 16858 1811 17586 16691 1046	
Nautical Miles O 10 Statute Miles O 20 Kilometers U 1 North and east coordinates at less than -3° (clockwise) to cord for orthogonal coordinate grid Lambert conformal conic project	ompensate overlaid on	FRANKFURT 114.2 MAIN O EGELSBACH CHARLIE
	LEGEND	KITZINGEN B ERLANGEN
27 4 o	Civil-Public use airport	NURNBERG 114.9
® SANTA MONICA	Restricted/Private-Nonpublic use airport, having emergency use or landmark value Airport Name	NEUOSTHEIM NURNBERG
ATIS 119.15 175-50	Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)	KARLSRUHE 115.95 LUBURG DINKELSBUHL ALLERSBERG 111.2
NAME FREQUENCY ®	VOR	FORCHEIM 109.2 BODING 117.8
NAME FREQUENCY	VORTAC (Distance Measuring Equipment Able)	BADEN-BADEN/OOS
NAME FREQUENCY	VOR/DME	STUTTGART 6 TANGO 112.5
NAME FREQUENCY O	Non Directional Beacon	STRASBOURG 115.6 MULHAUSEN MULHAUSEN ERDING 113.6
VOR/DME_ NAME FREQUENCY	If VOR falls directly on an airport, only the airport symbol will be shown. The VOR facility type is shown at the top of the box.	MUNICH NEUBIBERG MUNICH 112.3

Abbeville (VOR)

17997N 14192E freq. 1166

Belfast, UK (VOR)

20117N 12537E freq. 116.2

Bembridge

18356N 13445E alt. 56

RWY 12-30 2742 X 72

Berry Head (VOR)

18339N 12804F freq. 112.7

Birmingham Intl 19110N 13388F

alt. 325

RWY 15-33 7399 X 150 RWY 6-24 4316 X 150

SOUTHERN UNITED KINGDOM - 1

Boulogne (VOR)

18203N 14240E freq.

2 - SOUTHERN UNITED KINGDOM

Bournemouth (Hurn) (F) 18426N 13261E alt. 36 RWY 8-26 RWY 17-35

Bovington (VOR)

6028 X 150 4841 X 150

18766N 13649E 113.75

1887IN 12957E 117.45 freq.

freq.

Brecon (VOR)

Bristol Airport 18709N 13074E alt. 620

RWY 9-27 RWY 15-33

Brussels, Belgium (VOR) 18233N 14929E frea. 114.6

Cambrai (VOR) 17987N freq.

14561E

6592 X 150 3207 X 150

RWY 6-24

Cambridge

Cardiff (F) 18743N 12912E alt. 220 RWY 12-30

18940N 13857E

alt. 49

RWY 3-21

18763N 14086E freq.

Compton (VOR) 18694N

freq.

Costa, Belgium (VOR)

18445N 14641E freq. 111.8

SOUTHERN UNITED KINGDOM - 3

6441 X 150

7721 X 150 3667 X 98



Clacton (VOR)

114,55

13463E 114.35

RWY 18-36 2033 X 59 Daventry (VOR)

13532E

18973N Exeter 116.4 freq.

Deauville (VOR) 17699N 13721E 110.2

freq. Detling (VOR) Gam (VOR) 13921E

18555N freq. Gloucester / Cheltenham

Diekirch, Luxembourg (VOR) 17759N 15339E frea. 114.4

17930N 13998E

freq. 115.8

Dieppe (VOR)

RWY 18-36 RWY 9-27 RWY 4-22

> freq. 114.75

Goodwood (VOR) 18415N 13546F

18896N 13249E alt. 95

112.8 freq.

19685N 12334E 114.9 freq.

18475N 12846E alt. 102

RWY 8-26

RWY 13-31

19420N 13636E

> 2295 X 91 4664 X 118 3188 X 131













6828 X 150

4395 X 150



6 - SOUTHERN UNITED KINGDOM

SOUTHERN UNITED KINGDOM - 7

Halfpenny Green 19155N 13264E alt. 292

RWY 4-22 RWY 10-28 RWY 16-34

2099 X 72 2492 X 72 3863 X 72

Hamm, Germany (VOR)

18588N 15800E 115.65 freq.

Heathrow (F)

18657N 13660E

alt. 79

RWY 10-28 12798 X 150 RWY 10-28 11998 X 150 RWY 5-23 7734 X 150



Honiley (VOR) 19066N freq.

13405E

Ipswich

18837N 14108E alt. 128

RWY 8-26 3417 X 341 RWY 14-32 2984 X 301



Lambourne (VOR) 18710N freq.

13823E 115.6

Lands end (VOR)

18341N 12224E 114.2 freq.

London (VOR)

18665N 13657E 113.6 freq.

London - Gatwick

18517N 13709E alt. 203

RWY 8-26 RWY 8-26

8416 X 150 10364 X 150

Luton (F)

18822N 13703E alt. 525 RWY 8-26

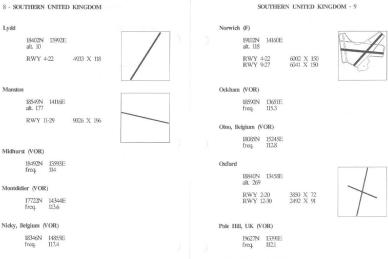
RWY 18-36 RWY 6-24

7084 X 150 2282 X 131 1285 X 85



Lvdd (VOR) freq.

18421N 13979E 114.05



Nicky, Belgium (VOR)

Rekken, Netherlands (VOR)

18727N 15552E frea. 116.8

10 - SOUTHERN UNITED KINGDOM SOUTHERN UNITED KINGDOM - 11 Seaford (VOR) Southend 18345N 13770E 18663N 13960E freq. 117 alt. 49 RWY 6-24 5261 X 118 Shannon, Ireland (VOR) RWY 15-33 3712 X 91 19567N 11619E freq. 113.3 Spijkerboor, Netherlands (VOR) Shoreham 18913N 15069E 113,3 freq. 18391N 13666E alt. 7 Stu (VOR) RWY 3-21 2702 X 59 12529E 19066N freq. 113.1 Southampton (VOR) Talla, UK (VOR)

18346N 13770E freq.

113.35

Southampton

18477N 13397E alt. 43

RWY 2-20 5648 X 118



20408N 13209E freq. 113.8



AIRPORT DIRECTO	RY - SOUTHERN UNITED KINGDOM	ENLARGED SECTION SOUTHERN UNITED KINGDOM AREA CHART
CITY AIRPORT	NORTH EAST ALT. F ILS (Fuel) (Rwy/Freq)	NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Bembridge Isle of Wigh Birmingham Bournemouth Bristol Cambridge Cardiff Cranfield Exeter Gloucester Halfpenny Green Ipswich London Heathrow ATIS Luton Lydd Lydd Manston Norwich Norwich Shoreham Southampto Southend Surming Birmingham Birmingham Southend Birmingham Gambirmingham Birmingham Birmingham Birmingham Birmingham Hurn Birmingham Birmingham Birmingham Hurn Birmingham Birmingha	nt 18356 13445 56 n Intl 19110 13388 325 n 18426 13261 36 * ort 18709 13074 620 n 18940 13857 49 18743 12912 220 * 18911 13649 364 18475 12846 102 n 18896 13249 95 Green 19155 13264 292 18837 14108 128 18517 13709 203 18657 13660 79 *10L/110.3 121.85 18822 13703 525 * 18402 13992 10 18549 14116 177 19102 14160 118 * 18840 13458 269 18391 13666 7	GAMSTON 112.8 NORWICH HALFPENNY GREEN HONILEY 112.9 DAVENTRY 116.4 CRANFIELD IPSWICH
Nautical Miles 0 10 Statute Miles 0 10 Statute Miles 0 20 Kilometers 1 1 North and east coordinates are approximately -8° (clockwise) tor orthogonal coordinate grid of Lambert conformal conic project	to compensate overlaid on	OXFORD- KIDLINGTON BRECON 1117.45 CARDIFF 10 BRISTOL BRISTOL CARDIFF 10 BRISTOL CARDIFF 10 BRISTOL CARDIFF 10 BRISTOL CARDIFF 10 CARDIFF 1
a o	Civil-Public use airport	SEAFORD J
®	Restricted/Private-Nonpublic use airport, having emergency use or landmark value	BEMBRIDGE GOODWOOD 117.0 BOULOGNE
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)	BERRY HEAD 112.7
NAME FREQUENCY °	VOR	The state of the s
NAME FREQUENCY	VORTAC (Distance Measuring Equipment Able)	
NAME FREQUENCY	VOR/DME	
NAME FREQUENCY O	Non Directional Beacon	
VOR/DME_ NAME FREQUENCY	If VOR falls directly on an airport, only the airport symbol will be shown. The VOR facility type is shown at the top of the box.	

13384N 60862E alt. 33

BARKING SANDS PMRF 13695N 60174E alt. 16

BARRERS POINT

RWY 11-29 8410 X 200 RWY 4-22 8335 X 200 RWY 4-22 8335 X 200

RWY 16-34 6010 X 150

12724N 61872F freg. 339

DILLINGHAM

BRADSHAW (BSF) (NDB)

RWY 8-26 9000 X 75

alt. 16

13496N 60810E

FORD ISLAND ALF

13409N 60905E
alt. 16

HI 23

13671N 60318E
alt. 479

HAWAII - 3

2 - HAWAII

RWY 8-26

RWY 3-21

HAIKU

9800 X 150

5605 X 150

RWY 4-22 4005 X 55 RWY 7-25 2000 X 75

GENERAL LYMAN FLD, HILO (F)

12707N 62094E 1127017N 62112E freq. 116.9

freq. 116.9 HONOKAA 12864N 61907E

12864N alt. 1440 61907E alt. 1440 RWY 8-26 1800 X 75

RWY 4-22

6950 X 150

13661N 60315E alt. 384 RWY 6-24 2400 X 75 HONOLULU (HNL) (VOR)

RWY 6-24 2400 X 75 HONOLULU (HNL) (VOR)

13394N 60879E freq. 114.8

HANA 13165N 61694E 13388N 60916E

13165N 61694E 13388N 60916E alt. 13

RWY 8-26 3610 X 100 RWY 8-26 12360 X 150 RWY 8-26 12000 X 2000 RWY 4-22 9000 X 150

KAHULUI, MAUI (F)

13205N 61525E 13236N 61427E alt. 52

RWY 2-20 6995 X 150 RWY 2-20 3000 X 75

KALAUPAPA 13339N 61307E alt. 26 RWY 5-23 2685 X 55

4 - HAWAII

KAMUELA (MUE) (VOR)





61309E

KEAHOLE, KAILU KONA (F)

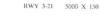
13152N

freq. 117.7



HAWAII - 5





alt. 1309

LIHUE (LIH) (VOR) 13671N freq. 113.5

LIHUE, KAUAI (F)

13673N

alt. 148

60352E

60349E



RWY 17-35 6500 X 150 RWY 3-21 6005 X 150 MAUL (OGG) (VOR)

13209N 61525E freq. 114.3 MAUNA KEA HONOLII

12730N 62058E alt. 1401

RWY 7-25





freq. 353 MOLOKAI (MKK) (VOR)

61487E

61254E

4495 X 100

13311N 61226E freq. 116.1 MOLOKAI

13157N

13317N

RWY 5-23 RWY 17-35 3115 X 100



MOUNTAIN VIEW

alt. 453

12636N 62076E alt. 1499 RWY 5-23

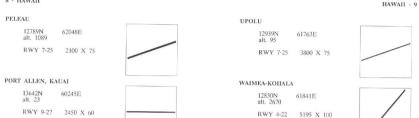




12634N

freq. 332

PAHOA (POA) (NDB) 62129E



8 - HAWAII

freq. 112.3



SOUTH KAUAI (SOK) (VOR) WHEELER (HHI) (NDB)

13643N 60275E 13453N 60875E

freq. 115.4 freq. 373

UPOLU (UPP) (VOR) 12912N 61768E

AIRPORT DIRECTORY - HAWAII AREA CHART									
AIRPORT	ISLAND	NORTH	EAST	ALT	FU	EL ILS	ATIS	VASI	
Barbers Point	Oahu	13384N	60862E	33					
Barking Sands PMRF	Kauai	13695N	60174E	16					
Dillingham	Oahu	13496N	60810E	16					
Ford Island ALF	Oahu	13409N	60905E	16					
General Lyman Fld	Hawaii	12707N	62094E	39	*	110.70/26	126.4	8.26.3	
Haiku	Kauai	13661N	60315E	384					
Hana	Maui	13165N	61694E	75					
HI 23	Kauai	13671N	60318E	479					
Honokaa	Hawaii	12864N	61907E	1440					
Honolulu Intl	Oahu	13388N	60916E	13	*	109.50/8L	127.9	8R,26L,4L 26R,4R,2	
Kahului	Maui	13205N	61525E	52	*	110.10/2	128.6	2,20,5	

13339N

13443N

13236N

12716N

13162N

13673N

12730N

13317N

12636N

12789N

13642N

13774N

12939N

12830N

12822N

61307E 26

60984E 16

61427E 16

61690E 43

61318E 1309

60349E 148

62058E 1401

62076E 1499

62048E 1089

60245E 23

61763E 95

60313E 358

61841F 2670

62002E 1361

61254E 453

109.70/17

110.90/35

127.4 17,35

128.2

127.2 17,35,3,21

Kalaupapa

Keahole

Lanai

Lihue

Molokai

Peleau

Upolu

Princeville

Waipunelei

Kaneohoe Bay MCAS

Kapalua West Maui

Mauna Kea Honolii

Mountain View

Port Allen, Kauai

Waimea-Kohala

NAME

FREQUENCY

Molokai

Oahu

Maui

Hawaii

Lihue, Kauai

Lanai

Hawaii

Molokai

Hawaii

Hawaii

Kauai

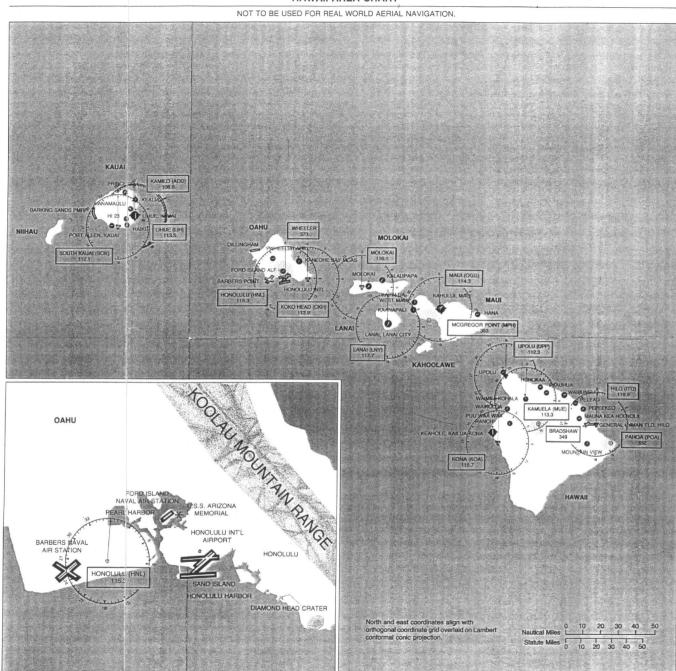
Kauai

Hawaii

Hawaii

Hawaii

HAWAII AREA CHART



LEGEND Civil-Public use airport Restricted/Private-Nonpublic use airport, having emergency use or landmark value Rotating light in operation, sunset to sunrise SANTA MONICA Airport Name ATIS 119.15 Advisory Frequency (if available) 175-50 Elevation (feet) - Length (hundreds of feet) NAME VOR **FREQUENCY** NAME VORTAC (Distance Measuring Equipment Able) FREQUENCY NAME VOR/DME FREQUENCY NAME Non Directional Beacon FREQUENCY _VOR/DME If VOR falls directly on an airport, only the airport

symbol will be shown. The VOR facility type is

shown at the top of the box.